Start	48505	End	49592
Name	OJ990527_37.9919.C4.o2.ts	Method	TBLASTX:Soybean
Start	30591	End	31001
GI	none	Score	70
Exons	30591..30695, 30723..31001		

Seq. No.	14311	Seq. ID	OJ990527_37.9919.C4
Gene No.	30533	Strand	-
Start	48505	End	49592
Name	OJ990527_37.9919.C4.o2.tw	Method	TBLASTX:Wheat
Start	30591	End	31019
GI	none	Score	107
Exons	30591..30707, 30723..30938, 30912..31019		

Seq. No.	14311	Seq. ID	OJ990527_37.9919.C4
Gene No.	30533	Strand	-
Start	48505	End	49592
Name	OJ990527_37.9919.C4.o1.tc	Method	TBLASTX:Cress
Start	30738	End	31046
GI	none	Score	194
Exons	30738..31046		

Seq. No.	14311	Seq. ID	OJ990527_37.9919.C4
Gene No.	30533	Strand	-
Start	48505	End	49592
Name	OJ990527_37.9919.C4.o3.tw	Method	TBLASTX:Wheat
Start	31821	End	32192
GI	none	Score	106
Exons	31821..31964, 32007..32192, 32036..32176		

Seq. No.	14311	Seq. ID	OJ990527_37.9919.C4
Gene No.	30533	Strand	-
Start	48505	End	49592
Name	OJ990527_37.9919.C4.o1.ts	Method	TBLASTX:Soybean
Start	39699	End	40073
GI	none	Score	228
Exons	39699..40073		

Seq. No.	14311	Seq. ID	OJ990527_37.9919.C4
Gene No.	30533	Strand	-
Start	48505	End	49592
Name	OJ990527_37.9919.C4.o11.gs	Method	GENSCAN
Start	48505	End	49592
GI	none	Score	.56
Exons	48505..48710, 49484..49592		

Seq. No.	14312	Seq. ID	OJ990527_37.9919.C5
Gene No.	30534	Strand	-
Start	1128	End	2488
Name	OJ990527_37.9919.C5.o1.gs	Method	GENSCAN
Start	1128	End	2488
GI	none	Score	.58
Exons	1128..1360, 2309..2488		

Seq. No.	14312	Seq. ID	OJ990527_37.9919.C5
Gene No.	30535	Strand	-
Start	3416	End	5628

Name	OJ990527_37.9919.C5.o2.gs	Method	GENSCAN
Start	3416	End	5628
GI	none	Score	.72
Exons	3416..3553, 4653..4729, 4893..5042, 5079..5174, 5307..5504, 5556..5628		

Seq. No.	14313	Seq. ID	OJ990527_37.9919.C6
Gene No.	30536	Strand	-
Start	1	End	1005
Name	OJ990527_37.9919.C6.o1.np	Method	AAT/NAP
Start	1	End	1005
GI	2213608	Score	207
Exons	1..71, 482..1005		
GI Descrip.	(AC000103) F21J9.2 [Arabidopsis thaliana]		

Seq. No.	14313	Seq. ID	OJ990527_37.9919.C6
Gene No.	30536	Strand	-
Start	1	End	1005
Name	OJ990527_37.9919.C6.o1.gs	Method	GENSCAN
Start	334	End	949
GI	none	Score	.48
Exons	334..568, 813..949		

Seq. No.	14313	Seq. ID	OJ990527_37.9919.C6
Gene No.	30536	Strand	-
Start	1	End	1005
Name	OJ990527_37.9919.C6.o1.tw	Method	TBLASTX:Wheat
Start	602	End	871
GI	none	Score	95
Exons	602..721, 724..870, 728..871		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30537	Strand	+
Start	340	End	4903
Name	OJ990527_37.9919.C7.o1.gs	Method	GENSCAN
Start	340	End	4903
GI	none	Score	.68
Exons	340..356, 777..860, 2040..2540, 2729..2799, 2832..2990, 3164..3252, 3665..3745, 4168..4213, 4363..4635, 4673..4758, 4817..4903		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30538	Strand	+
Start	7822	End	8525
Name	OJ990527_37.9919.C7.o2.gp	Method	AAT/GAP
Start	7822	End	8444
GI	3761363	Score	992
Exons	7822..8444		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-151 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30538	Strand	+
Start	7822	End	8525
Name	OJ990527_37.9919.C7.o3.gp	Method	AAT/GAP
Start	8255	End	8525
GI	61605_1.R1084	Score	424

Exons	8255..8525		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		
Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o2.gs	Method	GENSCAN
Start	5538	End	14844
GI	none	Score	.43
Exons	5538..5675, 6175..6294, 6568..6767, 7595..7678, 9039..10593, 11226..11800, 12085..12457, 12485..13050, 13080..13265, 14733..14844		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o1.gp	Method	AAT/GAP
Start	6393	End	6887
GI	576771	Score	829
Exons	6393..6604, 6631..6887		
GI Descrip.	576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3'-end sequence		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o1.np	Method	AAT/NAP
Start	8992	End	12736
GI	6630696	Score	5968
Exons	8992..12736		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o2.tw	Method	TBLASTX:Wheat
Start	9128	End	9603
GI	none	Score	425
Exons	9128..9514, 9130..9513, 9523..9591, 9529..9603, 9530..9598		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o3.ts	Method	TBLASTX:Soybean
Start	9256	End	9591
GI	none	Score	87
Exons	9256..9465, 9335..9460, 9484..9591, 9494..9562		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o3.tm	Method	TBLASTX:Maize
Start	9459	End	9796
GI	none	Score	127

Exons	9459..9710, 9460..9792, 9461..9796		
Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o4.ts	Method	TBLASTX:Soybean
Start	9607	End	9916
GI	none	Score	66
Exons	9607..9789, 9610..9795, 9611..9793, 9787..9915, 9791..9916		
Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o3.tw	Method	TBLASTX:Wheat
Start	9739	End	10317
GI	none	Score	60
Exons	9739..9975, 9797..9901, 9970..10317, 10022..10297		
Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o1.tm	Method	TBLASTX:Maize
Start	9850	End	10317
GI	none	Score	110
Exons	9850..10317, 9953..10159, 10184..10315		
Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o1.ts	Method	TBLASTX:Soybean
Start	9994	End	10449
GI	5509260	Score	78
Exons	9994..10449, 10004..10162, 10099..10353, 10223..10354		
GI Descrip.	-		
Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o1.tc	Method	TBLASTX:Cress
Start	10096	End	10356
GI	none	Score	107
Exons	10096..10356, 10184..10354		
Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o1.tw	Method	TBLASTX:Wheat
Start	10369	End	11116
GI	none	Score	123
Exons	10369..10551, 10369..11109, 10374..10919, 10619..11116, 10952..11116		
Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o2.ts	Method	TBLASTX:Soybean
Start	10774	End	11172

GI	none	Score	100
Exons	10774..10947, 10951..11172, 10955..11170		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o5.tm	Method	TBLASTX:Maize
Start	10960	End	11423
GI	none	Score	79
Exons	10960..11178, 10967..11143, 11181..11423		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o5.tw	Method	TBLASTX:Wheat
Start	11122	End	11462
GI	none	Score	198
Exons	11122..11178, 11181..11462		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o5.ts	Method	TBLASTX:Soybean
Start	11181	End	11561
GI	none	Score	84
Exons	11181..11429, 11412..11561		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o2.tm	Method	TBLASTX:Maize
Start	11509	End	11902
GI	none	Score	47
Exons	11509..11604, 11511..11576, 11568..11747, 11605..11754, 11606..11752, 11745..11879, 11747..11902, 11752..11880		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o4.tm	Method	TBLASTX:Maize
Start	12386	End	12694
GI	none	Score	92
Exons	12386..12694, 12389..12535, 12462..12629		

Seq. No.	14314	Seq. ID	OJ990527_37.9919.C7
Gene No.	30539	Strand	-
Start	5538	End	14844
Name	OJ990527_37.9919.C7.o4.tw	Method	TBLASTX:Wheat
Start	12445	End	12836
GI	none	Score	150
Exons	12445..12627, 12446..12730, 12465..12656, 12707..12835, 12753..12836		

Seq. No.	14315	Seq. ID	OJ990527_37.9919.C8
Gene No.	30540	Strand	-
Start	268	End	742
Name	OJ990527_37.9919.C8.o1.gs	Method	GENSCAN

Start	268	End	690
GI	none	Score	.89
Exons	268..690		

Seq. No.	14315	Seq. ID	OJ990527_37.9919.C8
Gene No.	30540	Strand	-
Start	268	End	742
Name	OJ990527_37.9919.C8.o1.np	Method	AAT/NAP
Start	271	End	742
GI	2126090	Score	775
Exons	271..742		
GI Descrip.	transposase (insertion sequence IS10) - Escherichia coli gi|455676|bbs|140379 (S67119) transposase [Escherichia coli, LBB84, plasmid pXT107, IS10L/R-1, Peptide PlasmidTransposonInsertionMutant, 402 aa] [Escherichia coli] gi|6634720|gb|AAF19728.1|AC012463_2 (AC012463) T2E6.2 [Arabidopsis thaliana]		

Seq. No.	14316	Seq. ID	OJ990527_37.9919.C9
Gene No.	30541	Strand	-
Start	129	End	694
Name	OJ990527_37.9919.C9.o1.gs	Method	GENSCAN
Start	129	End	694
GI	none	Score	.79
Exons	129..264, 540..694		

Seq. No.	14317	Seq. ID	OJ990527_37.9919.C10
Gene No.	30542	Strand	-
Start	145	End	234
Name	OJ990527_37.9919.C10.o1.gs	Method	GENSCAN
Start	145	End	234
GI	none	Score	.94
Exons	145..234		

Seq. No.	14318	Seq. ID	OJ990527_37.9919.C12
Gene No.	30543	Strand	+
Start	171	End	240
Name	OJ990527_37.9919.C12.o1.gs	Method	GENSCAN
Start	171	End	240
GI	none	Score	.78
Exons	171..240		

Seq. No.	14318	Seq. ID	OJ990527_37.9919.C12
Gene No.	30544	Strand	-
Start	1	End	170
Name	OJ990527_37.9919.C12.o1.gp	Method	AAT/GAP
Start	1	End	159
GI	7406_1.R1084	Score	252
Exons	1..159		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	14318	Seq. ID	OJ990527_37.9919.C12
Gene No.	30544	Strand	-
Start	1	End	170
Name	OJ990527_37.9919.C12.o1.np	Method	AAT/NAP
Start	1	End	170

GI	6721543	Score	108
Exons	1..170		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	14319	Seq. ID	OJ990527_37.9919.C13
Gene No.	30545	Strand	-
Start	1	End	140
Name	OJ990527_37.9919.C13.o1.np	Method	AAT/NAP
Start	1	End	140
GI	6587849	Score	78
Exons	1..140		
GI Descrip.	(AC006551) Very similar to retrotransposon reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	14320	Seq. ID	OJ990527_37.9919.C16
Gene No.	30546	Strand	+
Start	1	End	710
Name	OJ990527_37.9919.C16.o1.np	Method	AAT/NAP
Start	1	End	710
GI	5441880	Score	1232
Exons	1..710		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14320	Seq. ID	OJ990527_37.9919.C16
Gene No.	30546	Strand	+
Start	1	End	710
Name	OJ990527_37.9919.C16.o1.gs	Method	GENSCAN
Start	60	End	660
GI	none	Score	.58
Exons	60..660		

Seq. No.	14320	Seq. ID	OJ990527_37.9919.C16
Gene No.	30546	Strand	+
Start	1	End	710
Name	OJ990527_37.9919.C16.o1.tm	Method	TBLASTX:Maize
Start	387	End	703
GI	none	Score	93
Exons	387..515, 395..493, 549..695, 566..703		

Seq. No.	14320	Seq. ID	OJ990527_37.9919.C16
Gene No.	30546	Strand	+
Start	1	End	710
Name	OJ990527_37.9919.C16.o1.gp	Method	AAT/GAP
Start	430	End	710
GI	5701669	Score	539
Exons	430..710		
GI Descrip.	5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14321	Seq. ID	OJ990427_29.9922.C1
Gene No.	30547	Strand	+
Start	1694	End	3166
Name	OJ990427_29.9922.C1.o2.gp	Method	AAT/GAP
Start	1694	End	3166

GI	15608_1.R1084	Score	2860
Exons	1694..3166		
GI Descrip.	'6006355/dbj|AP000559.1|AP000559 3.0e-11 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		

Seq. No.	14321	Seq. ID	OJ990427_29.9922.C1
Gene No.	30548	Strand	-
Start	1955	End	2867
Name	OJ990427_29.9922.C1.o1.gs	Method	GENSCAN
Start	1955	End	2867
GI	none	Score	.46
Exons	1955..2164, 2481..2867		

Seq. No.	14322	Seq. ID	OJ990427_29.9922.C2
Gene No.	30549	Strand	+
Start	809	End	1330
Name	OJ990427_29.9922.C2.o1.gs	Method	GENSCAN
Start	809	End	1330
GI	none	Score	.87
Exons	809..1330		

Seq. No.	14322	Seq. ID	OJ990427_29.9922.C2
Gene No.	30550	Strand	-
Start	1272	End	1354
Name	OJ990427_29.9922.C2.o1.gp	Method	AAT/GAP
Start	1272	End	1354
GI	uC-osflcyp081e03b1	Score	117
Exons	1272..1354		
GI Descrip.	'4249402 2.0e-84 (AC006072) unknown protein [Arabidopsis thaliana]'		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30551	Strand	+
Start	101	End	1557
Name	OJ990427_29.9922.C3.o1.gp	Method	AAT/GAP
Start	101	End	917
GI	uC-osflcyp081e03b1	Score	699
Exons	101..234, 560..643, 736..917		
GI Descrip.	'4249402 2.0e-84 (AC006072) unknown protein [Arabidopsis thaliana]'		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30551	Strand	+
Start	101	End	1557
Name	OJ990427_29.9922.C3.o1.gs	Method	GENSCAN
Start	560	End	1557
GI	none	Score	.88
Exons	560..643, 736..874, 1241..1557		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30552	Strand	+
Start	1583	End	2571
Name	OJ990427_29.9922.C3.o2.gp	Method	AAT/GAP
Start	1583	End	2571
GI	none	Score	540
Exons	1583..1749, 2188..2243, 2327..2430, 2529..2571		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30553	Strand	+
Start	5045	End	5733
Name	OJ990427_29.9922.C3.o2.gs	Method	GENSCAN
Start	5045	End	5733
GI	none	Score	.64
Exons	5045..5239, 5467..5733		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30554	Strand	+
Start	6481	End	7337
Name	OJ990427_29.9922.C3.o1.np	Method	AAT/NAP
Start	6481	End	7337
GI	5922623	Score	199
Exons	6481..6565, 6942..7093, 7261..7337		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30555	Strand	+
Start	14421	End	17487
Name	OJ990427_29.9922.C3.o6.gs	Method	GENSCAN
Start	14421	End	17195
GI	none	Score	.89
Exons	14421..14533, 14654..14903, 15755..15808, 16171..16334, 16985..17195		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30555	Strand	+
Start	14421	End	17487
Name	OJ990427_29.9922.C3.o3.gp	Method	AAT/GAP
Start	14651	End	16838
GI	none	Score	1250
Exons	14651..14903, 15552..15671, 15755..15808, 16171..16334, 16727..16838		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30555	Strand	+
Start	14421	End	17487
Name	OJ990427_29.9922.C3.o4.gp	Method	AAT/GAP
Start	16877	End	17487
GI	none	Score	994
Exons	16877..16903, 16985..17487		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30556	Strand	+
Start	22704	End	27437
Name	OJ990427_29.9922.C3.o6.np	Method	AAT/NAP
Start	22704	End	27437
GI	5420389	Score	136
Exons	22704..23115, 27254..27437		
GI Descrip.	(AJ243460) proteophosphoglycan [Leishmania major]		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30557	Strand	-
Start	6213	End	7007

Name	OJ990427_29.9922.C3.o3.gs	Method	GENSCAN
Start	6213	End	7007
GI	none	Score	.88
Exons	6213..6272, 6514..6684, 6921..7007		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30558	Strand	-
Start	9318	End	13428
Name	OJ990427_29.9922.C3.o4.gs	Method	GENSCAN
Start	9318	End	11550
GI	none	Score	.87
Exons	9318..9628, 9715..9805, 10152..10234, 10346..10410, 10513..10677, 10948..11006, 11162..11237, 11432..11550		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30558	Strand	-
Start	9318	End	13428
Name	OJ990427_29.9922.C3.o2.np	Method	AAT/NAP
Start	9339	End	13428
GI	927577	Score	945
Exons	9339..9628, 9715..9805, 10152..10234, 10346..10410, 10513..10596, 10777..10842, 10948..11006, 11162..11237, 11432..11535, 11670..11704, 12038..12094, 12423..12484, 12691..12762, 13280..13428		
GI Descrip.	(U12927) alpha-galactosidase [Phaseolus vulgaris]		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30558	Strand	-
Start	9318	End	13428
Name	OJ990427_29.9922.C3.o5.gs	Method	GENSCAN
Start	11937	End	12839
GI	none	Score	.93
Exons	11937..11968, 12038..12094, 12423..12484, 12691..12839		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30559	Strand	-
Start	18367	End	19512
Name	OJ990427_29.9922.C3.o5.gp	Method	AAT/GAP
Start	18116	End	18778
GI	68789_1.R1084	Score	1239
Exons	18116..18778		
GI Descrip.	'2605714 3.0e-46 (AF026275) beta-tonoplast intrinsic protein [Arabidopsis thaliana]'		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30559	Strand	-
Start	18367	End	19512
Name	OJ990427_29.9922.C3.o7.gs	Method	GENSCAN
Start	18367	End	19512
GI	none	Score	.81
Exons	18367..18762, 18848..19095, 19198..19348, 19381..19512		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30559	Strand	-
Start	18367	End	19512
Name	OJ990427_29.9922.C3.o3.np	Method	AAT/NAP
Start	18370	End	19339

GI	2605714	Score	868
Exons	18370..18762, 18848..19090, 19175..19339		
GI Descrip.	(AF026275) beta-tonoplast intrinsic protein [Arabidopsis thaliana]		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30559	Strand	-
Start	18367	End	19512
Name	OJ990427_29.9922.C3.o6.gp	Method	AAT/GAP
Start	18996	End	19496
GI	28396_1.R1084	Score	729
Exons	18996..19095, 19198..19496		
GI Descrip.	'1109614/dbj|BAA08108| 3.0e-11 (D45078) MP28 [Cucurbita sp.]'		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	557	End	2457
GI	none	Score	86
Exons	557..652, 563..646, 727..912, 727..915, 910..984, 911..985, 1062..1124, 1088..1222, 1089..1277, 1089..1169, 1091..1228, 1165..1215, 1168..1224, 1217..1348, 1230..1346, 1244..1345, 1247..1342, 1250..1345, 1251..1346, 1252..1341, 1252..1344, 1252..1341, 1253..1345, 1253..1348, 1253..1345, 1253..1333, 1254..1346, 1254..1334, 1254..1346, 1254..1358, 1254..1346, 1254..1346, 1256..1345, 1256..1363, 1263..1322, 1265..1324, 1293..1346, 1346..1420, 1349..1498, 1349..1414, 1349..1441, 1349..1495, 1349..1432, 1349..1417, 1349..1417, 1349..1420, 1349..1417, 1350..1436, 1351..1512, 1351..1419, 1351..1437, 1351..1437, 1352..1414, 1355..1441, 1356..1499, 1356..1436, 1356..1436, 1357..1437, 1357..1437, 1357..1461, 1411..1497, 1502..1582, 1511..1594, 1512..1622, 1601..1651, 1606..1650, 1608..1652, 1650..1694, 1686..1748, 1696..1749, 2185..2244, 2338..2397, 2386..2457		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o2.tm	Method	TBLASTX:Maize
Start	8135	End	8606
GI	none	Score	321
Exons	8135..8323, 8136..8507, 8520..8606, 8525..8602		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o1.tw	Method	TBLASTX:Wheat
Start	8331	End	8701
GI	none	Score	324
Exons	8331..8699, 8340..8699, 8480..8701		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o9.tm	Method	TBLASTX:Maize
Start	8777	End	9068

GI	none	Score	186
Exons	8777..8890, 8778..8975, 8931..8984, 8970..9068		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o2.ts	Method	TBLASTX:Soybean
Start	9339	End	9781
GI	none	Score	40
Exons	9339..9398, 9343..9399, 9423..9494, 9427..9480, 9525..9635, 9556..9630, 9707..9781, 9717..9764		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o6.tm	Method	TBLASTX:Maize
Start	9522	End	10998
GI	none	Score	75
Exons	9522..9635, 9559..9630, 9707..9814, 9717..9830, 10144..10236, 10151..10231, 10152..10235, 10152..10244, 10153..10245, 10347..10412, 10347..10412, 10348..10419, 10491..10544, 10505..10597, 10515..10595, 10776..10844, 10776..10844, 10777..10863, 10939..10998, 10947..10997		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o2.tc	Method	TBLASTX:Cress
Start	9549	End	11230
GI	none	Score	82
Exons	9549..9635, 9562..9630, 9707..9814, 9720..9806, 10152..10238, 10162..10236, 10347..10412, 10500..10625, 10776..10844, 10777..10851, 10945..11022, 10947..11012, 11157..11213, 11162..11230		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o4.ts	Method	TBLASTX:Soybean
Start	10152	End	12746
GI	none	Score	81
Exons	10152..10244, 10171..10245, 10347..10412, 10515..10595, 10776..10844, 10777..10851, 10947..11012, 11157..11231, 11162..11233, 11431..11541, 11670..11705, 12030..12083, 12040..12111, 12454..12483, 12690..12746		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o10.tm	Method	TBLASTX:Maize
Start	11189	End	12765
GI	none	Score	102
Exons	11189..11233, 11425..11538, 11429..11524, 11430..11537, 11431..11541, 11670..11705, 12030..12083, 12040..12096, 12418..12483, 12425..12481, 12688..12765, 12688..12738, 12689..12760		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o8.tm	Method	TBLASTX:Maize
Start	14834	End	16267
GI	none	Score	88
Exons	14834..14902, 14835..14906, 15544..15678, 15546..15680, 15752..15808, 15754..15807, 15763..15810, 16165..16266, 16169..16267		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o7.tm	Method	TBLASTX:Maize
Start	16269	End	16908
GI	none	Score	77
Exons	16269..16325, 16270..16323, 16271..16387, 16725..16907, 16729..16908, 16737..16907, 16738..16908		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o3.ts	Method	TBLASTX:Soybean
Start	16686	End	16913
GI	none	Score	154
Exons	16686..16823, 16697..16789, 16728..16799, 16824..16907, 16837..16908, 16851..16913		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o5.tm	Method	TBLASTX:Maize
Start	16980	End	17199
GI	none	Score	97
Exons	16980..17036, 16982..17035, 16984..17037, 17022..17192, 17042..17110, 17047..17199, 17050..17193		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o1.tc	Method	TBLASTX:Cress
Start	18364	End	19321
GI	none	Score	262
Exons	18364..18762, 18410..18760, 18911..19075, 18963..19079, 19178..19321, 19200..19307		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o1.ts	Method	TBLASTX:Soybean
Start	18367	End	19352
GI	none	Score	269
Exons	18367..18396, 18406..18762, 18428..18793, 18911..19000, 19170..19352, 19172..19351		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-

Start	20567	End	23092
Name	OJ990427_29.9922.C3.o2.tw	Method	TBLASTX:Wheat
Start	18404	End	19307
GI	none	Score	218
Exons	18404..18742, 18436..18738, 18911..19000, 18963..19001, 19202..19306, 19212..19307		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o4.tm	Method	TBLASTX:Maize
Start	18430	End	19339
GI	none	Score	261
Exons	18430..18738, 18431..18736, 18911..19075, 19211..19339		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o5.np	Method	AAT/NAP
Start	20526	End	22849
GI	2462756	Score	376
Exons	20526..21025, 21065..21209, 21632..21837, 21865..22065, 22139..22314, 22395..22849		
GI Descrip.	(AC002292) putative receptor kinase [Arabidopsis thaliana]		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o8.gs	Method	GENSCAN
Start	20567	End	23092
GI	none	Score	.86
Exons	20567..21216, 21645..22091, 22177..23092		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o3.tm	Method	TBLASTX:Maize
Start	20645	End	21026
GI	none	Score	301
Exons	20645..20896, 20646..20954, 20862..20999, 20925..21005, 20933..21007, 20976..21026		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o3.tw	Method	TBLASTX:Wheat
Start	21062	End	21766
GI	none	Score	224
Exons	21062..21235, 21072..21233, 21646..21765, 21650..21766		

Seq. No.	14323	Seq. ID	OJ990427_29.9922.C3
Gene No.	30560	Strand	-
Start	20567	End	23092
Name	OJ990427_29.9922.C3.o5.ts	Method	TBLASTX:Soybean
Start	21065	End	22105
GI	none	Score	51
Exons	21065..21100, 21137..21214, 21643..21822, 21644..21787,		

21874..21975, 21887..21946, 22037..22105

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30561	Strand	+
Start	1	End	12936
Name	OJ990427_29.9922.C4.o1.np	Method	AAT/NAP
Start	1	End	12323
GI	1498315	Score	733
Exons	1..303, 626..685, 811..937, 1047..1112, 1195..1293, 3007..3073, 3297..3361, 3625..3720, 3819..3943, 4025..4128, 4734..4944, 12270..12323		
GI Descrip.	(U56419) IAP100 [Pisum sativum]		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30561	Strand	+
Start	1	End	12936
Name	OJ990427_29.9922.C4.o1.gs	Method	GENSCAN
Start	55	End	8403
GI	none	Score	.66
Exons	55..303, 626..685, 811..934, 1068..1112, 1195..1293, 1526..1574, 3297..3361, 3625..3698, 3819..3871, 4028..4128, 4804..4929, 4981..5065, 6328..6394, 6445..6671, 8111..8403		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30561	Strand	+
Start	1	End	12936
Name	OJ990427_29.9922.C4.o1.gp	Method	AAT/GAP
Start	92	End	5534
GI	1415_1.R1084	Score	3283
Exons	92..303, 626..685, 811..934, 1068..1112, 1195..1293, 3007..3073, 3297..3361, 3625..3698, 3819..3943, 4028..4128, 4734..5534		
GI Descrip.	'1498315 2.0e-84 (U56419) IAP100 [Pisum sativum]'		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30561	Strand	+
Start	1	End	12936
Name	OJ990427_29.9922.C4.o2.gp	Method	AAT/GAP
Start	7625	End	8738
GI	none	Score	1083
Exons	7625..7987, 8111..8233, 8593..8738		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30561	Strand	+
Start	1	End	12936
Name	OJ990427_29.9922.C4.o2.np	Method	AAT/NAP
Start	7646	End	9870
GI	6735317	Score	539
Exons	7646..7797, 8628..9870		
GI Descrip.	(AL137080) putative protein [Arabidopsis thaliana]		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30561	Strand	+
Start	1	End	12936
Name	OJ990427_29.9922.C4.o2.gs	Method	GENSCAN
Start	8520	End	9842
GI	none	Score	.99
Exons	8520..9842		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30561	Strand	+
Start	1	End	12936
Name	OJ990427_29.9922.C4.o3.gp	Method	AAT/GAP
Start	9085	End	9475
GI	none	Score	762
Exons	9085..9475		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30561	Strand	+
Start	1	End	12936
Name	OJ990427_29.9922.C4.o3.gs	Method	GENSCAN
Start	12195	End	12936
GI	none	Score	.62
Exons	12195..12321, 12830..12936		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30562	Strand	-
Start	9476	End	10193
Name	OJ990427_29.9922.C4.o2.tm	Method	TBLASTX:Maize
Start	230	End	4098
GI	none	Score	100
Exons	230..304, 624..704, 626..688, 627..689, 794..937, 794..934, 1192..1296, 1194..1301, 3003..3074, 3005..3121, 3006..3104, 3281..3361, 3284..3364, 3615..3701, 3622..3699, 3807..3941, 3822..3941, 3829..3942, 3832..3960, 4030..4098		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30562	Strand	-
Start	9476	End	10193
Name	OJ990427_29.9922.C4.o2.tw	Method	TBLASTX:Wheat
Start	3003	End	4128
GI	none	Score	82
Exons	3003..3074, 3006..3104, 3281..3361, 3284..3364, 3295..3369, 3615..3701, 3622..3699, 3819..3941, 3820..3942, 4019..4123, 4027..4128, 4029..4118, 4030..4128		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30562	Strand	-
Start	9476	End	10193
Name	OJ990427_29.9922.C4.o1.tm	Method	TBLASTX:Maize
Start	8654	End	9762
GI	none	Score	309
Exons	8654..8827, 8664..8849, 8871..9092, 8888..9091, 9129..9275, 9129..9482, 9161..9277, 9348..9761, 9353..9760, 9460..9762		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30562	Strand	-
Start	9476	End	10193
Name	OJ990427_29.9922.C4.o2.tc	Method	TBLASTX:Cress
Start	8682	End	9401
GI	none	Score	59
Exons	8682..8780, 8888..8998, 8889..9086, 9132..9236, 9348..9401		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30562	Strand	-

Start	9476	End	10193
Name	OJ990427_29.9922.C4.o1.tw	Method	TBLASTX:Wheat
Start	9361	End	9630
GI	none	Score	276
Exons	9361..9516, 9365..9628, 9366..9629, 9478..9630		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30562	Strand	-
Start	9476	End	10193
Name	OJ990427_29.9922.C4.o1.tc	Method	TBLASTX:Cress
Start	9414	End	9803
GI	none	Score	113
Exons	9414..9557, 9564..9803		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30562	Strand	-
Start	9476	End	10193
Name	OJ990427_29.9922.C4.o4.gp	Method	AAT/GAP
Start	9476	End	10193
GI	82907_1.R1084	Score	1392
Exons	9476..10193		
GI Descrip.	'6056194/gb|AAF02811.1|AC009400_7 2.0e-13 (AC009400) unknown protein [Arabidopsis thaliana]'		

Seq. No.	14324	Seq. ID	OJ990427_29.9922.C4
Gene No.	30562	Strand	-
Start	9476	End	10193
Name	OJ990427_29.9922.C4.o3.tw	Method	TBLASTX:Wheat
Start	9633	End	9775
GI	none	Score	190
Exons	9633..9773, 9633..9767, 9665..9775		

Seq. No.	14325	Seq. ID	OJ990427_29.9922.C5
Gene No.	30563	Strand	+
Start	1	End	6215
Name	OJ990427_29.9922.C5.o1.np	Method	AAT/NAP
Start	1	End	6215
GI	1498315	Score	1000
Exons	1..301, 845..904, 1972..2095, 2214..2282, 2366..2464, 3148..3214, 3420..3484, 3726..3831, 4107..4220, 4302..4405, 5558..5771, 6184..6215		
GI Descrip.	(U56419) IAP100 [Pisum sativum]		

Seq. No.	14325	Seq. ID	OJ990427_29.9922.C5
Gene No.	30563	Strand	+
Start	1	End	6215
Name	OJ990427_29.9922.C5.o1.gs	Method	GENSCAN
Start	131	End	5771
GI	none	Score	.82
Exons	131..301, 1972..2095, 2214..2282, 2366..2464, 3148..3214, 3420..3484, 3726..3820, 4096..4220, 4305..4405, 5558..5771		

Seq. No.	14325	Seq. ID	OJ990427_29.9922.C5
Gene No.	30563	Strand	+
Start	1	End	6215
Name	OJ990427_29.9922.C5.o2.gp	Method	AAT/GAP
Start	5623	End	5771

GI	60632_1.R1084	Score	280
Exons	5623..5771		
GI Descrip.	'1495768/emb|CAA92823| 1.0e-39 (Z68506) chloroplast inner envelope protein, 110 kD (IEP110) [Pisum sativum]'		

Seq. No.	14325	Seq. ID	OJ990427_29.9922.C5
Gene No.	30564	Strand	-
Start	1253	End	4405
Name	OJ990427_29.9922.C5.o1.ts	Method	TBLASTX:Soybean
Start	138	End	2279
GI	none	Score	110
Exons	138..302, 206..334, 207..314, 809..916, 846..902, 1940..2098, 1967..2098, 2214..2279		

Seq. No.	14325	Seq. ID	OJ990427_29.9922.C5
Gene No.	30564	Strand	-
Start	1253	End	4405
Name	OJ990427_29.9922.C5.o1.tm	Method	TBLASTX:Maize
Start	165	End	4403
GI	none	Score	132
Exons	165..296, 206..364, 207..314, 843..905, 845..907, 846..905, 1960..2094, 1967..2098, 1967..2095, 2208..2282, 2212..2286, 2214..2282, 2218..2286, 2363..2467, 2364..2462, 2365..2463, 2366..2464, 2367..2477, 3121..3240, 3144..3215, 3145..3219, 3417..3482, 3418..3483, 3419..3487, 3419..3484, 3686..3811, 3723..3809, 3725..3811, 4097..4219, 4099..4218, 4105..4224, 4143..4220, 4301..4375, 4306..4383, 4314..4376, 4377..4403, 4380..4403		

Seq. No.	14325	Seq. ID	OJ990427_29.9922.C5
Gene No.	30564	Strand	-
Start	1253	End	4405
Name	OJ990427_29.9922.C5.o1.gp	Method	AAT/GAP
Start	1253	End	1727
GI	LIB3432-059-P1-K1-D8	Score	738
Exons	1253..1727		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	14325	Seq. ID	OJ990427_29.9922.C5
Gene No.	30564	Strand	-
Start	1253	End	4405
Name	OJ990427_29.9922.C5.o1.tw	Method	TBLASTX:Wheat
Start	3141	End	4405
GI	none	Score	95
Exons	3141..3215, 3145..3219, 3147..3215, 3417..3485, 3418..3489, 3419..3487, 3686..3823, 3717..3818, 3724..3819, 4096..4218, 4097..4219, 4301..4405, 4317..4403		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30565	Strand	+
Start	1	End	2555
Name	OJ990427_29.9922.C6.o1.gp	Method	AAT/GAP
Start	1	End	578
GI	60632_1.R1084	Score	488
Exons	1..41, 171..327, 435..578		
GI Descrip.	'1495768/emb|CAA92823| 1.0e-39 (Z68506) chloroplast inner		

envelope protein, 110 kD (IEP110) [Pisum sativum]'

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30565	Strand	+
Start	1	End	2555
Name	OJ990427_29.9922.C6.o1.np	Method	AAT/NAP
Start	165	End	2181
GI	1495768	Score	1295
Exons	165..327, 435..557, 663..1649, 1933..2181		
GI Descrip.	(Z68506) chloroplast inner envelope protein, 110 kD (IEP110) [Pisum sativum]		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30565	Strand	+
Start	1	End	2555
Name	OJ990427_29.9922.C6.o1.gs	Method	GENSCAN
Start	173	End	2184
GI	none	Score	.96
Exons	173..327, 435..557, 663..1649, 1933..2184		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30565	Strand	+
Start	1	End	2555
Name	OJ990427_29.9922.C6.o2.gp	Method	AAT/GAP
Start	1472	End	2555
GI	1140_1.R1084	Score	1480
Exons	1472..1649, 1933..2555		
GI Descrip.	'1495768/emb|CAA92823| 2.0e-36 (Z68506) chloroplast inner envelope protein, 110 kD (IEP110) [Pisum sativum]'		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30566	Strand	+
Start	5212	End	13623
Name	OJ990427_29.9922.C6.o3.gs	Method	GENSCAN
Start	5212	End	5655
GI	none	Score	.78
Exons	5212..5655		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30566	Strand	+
Start	5212	End	13623
Name	OJ990427_29.9922.C6.o2.np	Method	AAT/NAP
Start	5227	End	12379
GI	2627133	Score	769
Exons	5227..5505, 9223..9601, 11616..12051, 12139..12379		
GI Descrip.	(AB003732) polyubiquitin [Cricetulus griseus]		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30566	Strand	+
Start	5212	End	13623
Name	OJ990427_29.9922.C6.o5.gs	Method	GENSCAN
Start	8990	End	13623
GI	none	Score	.45
Exons	8990..9007, 9208..9456, 9514..9714, 10280..10400, 11519..12357, 13441..13623		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6

Gene No.	30567	Strand	+
Start	14071	End	14429
Name	OJ990427_29.9922.C6.o6.gs	Method	GENSCAN
Start	14071	End	14429
GI	none	Score	.98
Exons	14071..14197, 14305..14429		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30568	Strand	-
Start	3024	End	4891
Name	OJ990427_29.9922.C6.o3.gp	Method	AAT/GAP
Start	2870	End	3696
GI	3760682	Score	754
Exons	2870..3155, 3552..3696		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30568	Strand	-
Start	3024	End	4891
Name	OJ990427_29.9922.C6.o2.gs	Method	GENSCAN
Start	3024	End	4891
GI	none	Score	.88
Exons	3024..3155, 3552..3671, 4616..4669, 4856..4891		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30569	Strand	-
Start	5182	End	5512
Name	OJ990427_29.9922.C6.o4.gp	Method	AAT/GAP
Start	5182	End	5512
GI	286336	Score	585
Exons	5182..5512		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30570	Strand	-
Start	6143	End	7942
Name	OJ990427_29.9922.C6.o4.gs	Method	GENSCAN
Start	6143	End	7942
GI	none	Score	.76
Exons	6143..6147, 7561..7942		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30571	Strand	-
Start	15194	End	15612
Name	OJ990427_29.9922.C6.o7.gs	Method	GENSCAN
Start	15194	End	15612
GI	none	Score	.83
Exons	15194..15219, 15270..15353, 15549..15612		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30572	Strand	-
Start	17999	End	18792
Name	OJ990427_29.9922.C6.o1.ts	Method	TBLASTX:Soybean
Start	178	End	1553
GI	none	Score	69
Exons	178..306, 945..1553, 962..1552		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30572	Strand	-

Start	17999	End	18792
Name	OJ990427_29.9922.C6.o1.tm	Method	TBLASTX:Maize
Start	506	End	2310
GI	none	Score	62
Exons	506..559, 507..560, 507..566, 662..796, 663..938, 663..800, 816..1652, 865..927, 867..1079, 962..1651, 1933..2190, 1937..2191, 1938..2108, 1942..2190, 2214..2237, 2259..2285, 2262..2291, 2263..2310, 2266..2310		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30572	Strand	-
Start	17999	End	18792
Name	OJ990427_29.9922.C6.o1.tc	Method	TBLASTX:Cress
Start	5187	End	12366
GI	none	Score	236
Exons	5187..5366, 5230..5445, 5512..5562, 5563..5616, 9223..9288, 9334..9372, 9373..9582, 9375..9563, 11610..11732, 11611..11733, 11782..11820, 11821..12042, 11823..11948, 12136..12153, 12258..12365, 12259..12366		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30572	Strand	-
Start	17999	End	18792
Name	OJ990427_29.9922.C6.o2.tm	Method	TBLASTX:Maize
Start	5200	End	12366
GI	none	Score	237
Exons	5200..5445, 5223..5366, 5341..5451, 5487..5615, 5512..5616, 5625..5681, 5626..5682, 9223..9288, 9334..9372, 9366..9581, 9367..9582, 11613..11732, 11614..11733, 11782..11820, 11814..12041, 11815..12042, 12136..12168, 12258..12365, 12259..12366		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30572	Strand	-
Start	17999	End	18792
Name	OJ990427_29.9922.C6.o1.tw	Method	TBLASTX:Wheat
Start	5215	End	12366
GI	none	Score	238
Exons	5215..5445, 5223..5366, 5226..5366, 5226..5291, 5230..5445, 5230..5295, 5335..5442, 5341..5451, 9223..9288, 9223..9288, 9223..9288, 9334..9372, 9334..9372, 9346..9582, 9375..9581, 9376..9582, 9376..9441, 9381..9581, 11596..11733, 11613..11732, 11616..11732, 11616..11693, 11617..11733, 11617..11691, 11782..11820, 11782..11820, 11794..12042, 11812..12012, 11823..12041, 11823..11900, 11823..11948, 11824..12042, 11824..11898, 12136..12162, 12138..12185, 12258..12365, 12258..12353, 12259..12366, 12259..12366		

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30572	Strand	-
Start	17999	End	18792
Name	OJ990427_29.9922.C6.o2.ts	Method	TBLASTX:Soybean
Start	5220	End	12366
GI	none	Score	238
Exons	5220..5366, 5221..5445, 5335..5445, 5512..5565, 5563..5616, 5571..5615, 5625..5681, 5626..5682, 9223..9288, 9334..9372, 9354..9563, 9358..9582, 11599..11733, 11601..11732,		

11782..11820, 11811..11948, 11812..12042, 11812..12012, 12258..12365, 12259..12366

Seq. No.	14326	Seq. ID	OJ990427_29.9922.C6
Gene No.	30572	Strand	-
Start	17999	End	18792
Name	OJ990427_29.9922.C6.o8.gs	Method	GENSCAN
Start	17999	End	18792
GI	none	Score	.48
Exons	17999..18124, 18730..18792		

Seq. No.	14327	Seq. ID	OJ990427_29.9922.C7
Gene No.	30573	Strand	+
Start	48	End	1610
Name	OJ990427_29.9922.C7.o1.gs	Method	GENSCAN
Start	48	End	1610
GI	none	Score	.8
Exons	48..190, 1209..1355, 1458..1610		

Seq. No.	14327	Seq. ID	OJ990427_29.9922.C7
Gene No.	30574	Strand	-
Start	1	End	232
Name	OJ990427_29.9922.C7.o1.np	Method	AAT/NAP
Start	1	End	232
GI	115825	Score	72
Exons	1..232		
GI Descrip.	CHLOROPHYLL A-B BINDING PROTEIN 3C PRECURSOR (LHCII TYPE I CAB-3C) (LHCP) gi|72734|pir||CDTO3C chlorophyll a/b-binding protein 3C precursor - tomato gi|224932|prf||1204205G protein 3C,chlorophyll binding [Lycopersicon esculentum]		

Seq. No.	14327	Seq. ID	OJ990427_29.9922.C7
Gene No.	30575	Strand	-
Start	2755	End	3548
Name	OJ990427_29.9922.C7.o2.gs	Method	GENSCAN
Start	2755	End	3548
GI	none	Score	.63
Exons	2755..2931, 3546..3548		

Seq. No.	14328	Seq. ID	OJ990427_29.9922.C8
Gene No.	30576	Strand	-
Start	2130	End	7306
Name	OJ990427_29.9922.C8.o1.gs	Method	GENSCAN
Start	2130	End	7230
GI	none	Score	.63
Exons	2130..2339, 2387..2412, 2518..2758, 5187..5265, 6206..6534, 7165..7230		

Seq. No.	14328	Seq. ID	OJ990427_29.9922.C8
Gene No.	30576	Strand	-
Start	2130	End	7306
Name	OJ990427_29.9922.C8.o1.gp	Method	AAT/GAP
Start	4315	End	5673
GI	none	Score	922
Exons	4315..4357, 4604..4709, 5187..5358, 5484..5673		

Seq. No.	14328	Seq. ID	OJ990427_29.9922.C8

Gene No.	30576	Strand	-
Start	2130	End	7306
Name	OJ990427_29.9922.C8.o2.gp	Method	AAT/GAP
Start	6040	End	6505
GI	LIB3432-008-P1-K1-E12	Score	899
Exons	6040..6505		
GI Descrip.	'2266664/emb|CAA74593| 7.0e-35 (Y14201) hypothetical protein [Hordeum vulgare]'		

Seq. No.	14328	Seq. ID	OJ990427_29.9922.C8
Gene No.	30576	Strand	-
Start	2130	End	7306
Name	OJ990427_29.9922.C8.o1.tm	Method	TBLASTX:Maize
Start	6190	End	6441
GI	none	Score	226
Exons	6190..6441, 6191..6436		

Seq. No.	14328	Seq. ID	OJ990427_29.9922.C8
Gene No.	30576	Strand	-
Start	2130	End	7306
Name	OJ990427_29.9922.C8.o1.np	Method	AAT/NAP
Start	6193	End	7306
GI	2266664	Score	521
Exons	6193..6534, 7165..7306		
GI Descrip.	(Y14201) hypothetical protein [Hordeum vulgare]		

Seq. No.	14328	Seq. ID	OJ990427_29.9922.C8
Gene No.	30576	Strand	-
Start	2130	End	7306
Name	OJ990427_29.9922.C8.o1.ts	Method	TBLASTX:Soybean
Start	6196	End	6528
GI	none	Score	129
Exons	6196..6471, 6200..6454, 6490..6525, 6490..6528		

Seq. No.	14329	Seq. ID	OJ990427_29.9922.C10
Gene No.	30577	Strand	-
Start	53	End	150
Name	OJ990427_29.9922.C10.o1.gs	Method	GENSCAN
Start	53	End	150
GI	none	Score	.58
Exons	53..150		

Seq. No.	14330	Seq. ID	OJ990427_28.9924.C1
Gene No.	30578	Strand	-
Start	452	End	743
Name	OJ990427_28.9924.C1.o1.gp	Method	AAT/GAP
Start	452	End	743
GI	61605_3.R1084	Score	443
Exons	452..743		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	14330	Seq. ID	OJ990427_28.9924.C1
Gene No.	30579	Strand	-
Start	1119	End	1292
Name	OJ990427_28.9924.C1.o1.np	Method	AAT/NAP
Start	1119	End	1292

GI	6063554	Score	126
Exons	1119..1292		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14330	Seq. ID	OJ990427_28.9924.C1
Gene No.	30580	Strand	-
Start	1279	End	1704
Name	OJ990427_28.9924.C1.o3.gp	Method	AAT/GAP
Start	1279	End	1704
GI	2428185	Score	829
Exons	1279..1704		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30581	Strand	+
Start	1	End	668
Name	OJ990427_28.9924.C2.o1.np	Method	AAT/NAP
Start	1	End	668
GI	5852180	Score	257
Exons	1..92, 228..668		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30582	Strand	+
Start	4166	End	7681
Name	OJ990427_28.9924.C2.o2.gs	Method	GENSCAN
Start	4166	End	7681
GI	none	Score	.54
Exons	4166..4187, 4692..4939, 5038..5254, 5396..5515, 5819..6492, 6570..6911, 7053..7127, 7196..7312, 7391..7681		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30583	Strand	+
Start	10588	End	11799
Name	OJ990427_28.9924.C2.o4.gs	Method	GENSCAN
Start	10588	End	11799
GI	none	Score	.84
Exons	10588..11030, 11198..11459, 11569..11799		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30584	Strand	+
Start	20157	End	20612
Name	OJ990427_28.9924.C2.o5.gp	Method	AAT/GAP
Start	20157	End	20612
GI	57406_1.R1084	Score	454
Exons	20157..20228, 20307..20414, 20492..20612		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30585	Strand	+
Start	21470	End	21540
Name	OJ990427_28.9924.C2.o6.gp	Method	AAT/GAP
Start	21470	End	21540

GI	57406_1.R1084	Score	100
Exons	21470..21540		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30586	Strand	+
Start	31516	End	31945
Name	OJ990427_28.9924.C2.o8.gp	Method	AAT/GAP
Start	31516	End	31945
GI	1631672	Score	619
Exons	31516..31775, 31853..31945		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30587	Strand	+
Start	35912	End	36480
Name	OJ990427_28.9924.C2.o10.gp	Method	AAT/GAP
Start	35912	End	36480
GI	4879016	Score	884
Exons	35912..36480		
GI Descrip.	6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30588	Strand	+
Start	42906	End	71681
Name	OJ990427_28.9924.C2.o8.np	Method	AAT/NAP
Start	42906	End	71681
GI	4584509	Score	576
Exons	42906..42956, 52617..52643, 55219..55343, 55791..55915, 56392..56545, 56622..56711, 57664..57739, 58199..58306, 65075..65165, 65285..65386, 65509..65621, 65941..66236, 69035..69124, 71652..71681		
GI Descrip.	(AJ011888) starch branching enzyme II [Solanum tuberosum]		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30588	Strand	+
Start	42906	End	71681
Name	OJ990427_28.9924.C2.o12.gs	Method	GENSCAN
Start	50338	End	61432
GI	none	Score	.61
Exons	50338..50423, 51201..51282, 51474..51607, 52378..52449, 52579..52665, 53308..53459, 53773..53907, 55240..55896, 55942..55975, 56362..56455, 56622..56711, 57664..57739, 58199..58306, 58792..58904, 59002..59103, 59150..59264, 59318..59633, 60710..60762, 61011..61432		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30588	Strand	+
Start	42906	End	71681
Name	OJ990427_28.9924.C2.o14.gs	Method	GENSCAN
Start	68149	End	70804
GI	none	Score	.95
Exons	68149..68204, 68714..68813, 69042..69119, 69236..69343, 70388..70468, 70742..70804		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30589	Strand	-
Start	1	End	638
Name	OJ990427_28.9924.C2.o1.gp	Method	AAT/GAP
Start	1	End	638
GI	101153_1.R1084	Score	517
Exons	1..131, 448..638		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30590	Strand	-
Start	8962	End	9689
Name	OJ990427_28.9924.C2.o2.np	Method	AAT/NAP
Start	8962	End	9689
GI	6815052	Score	510
Exons	8962..9080, 9362..9436, 9518..9689		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30591	Strand	-
Start	11457	End	27451
Name	OJ990427_28.9924.C2.o3.np	Method	AAT/NAP
Start	11457	End	17742
GI	4544372	Score	1149
Exons	11457..13013, 13119..13535, 13596..14621, 17653..17742		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30591	Strand	-
Start	11457	End	27451
Name	OJ990427_28.9924.C2.o5.gs	Method	GENSCAN
Start	12154	End	18770
GI	none	Score	.65
Exons	12154..12807, 12916..13539, 13792..14172, 14278..14907, 14959..16062, 16303..17055, 17182..17431, 17909..18084, 18167..18351, 18418..18530, 18574..18770		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30591	Strand	-
Start	11457	End	27451
Name	OJ990427_28.9924.C2.o5.np	Method	AAT/NAP
Start	16419	End	27451
GI	5852175	Score	37
Exons	16419..16587, 20336..20449, 27029..27451		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30591	Strand	-
Start	11457	End	27451
Name	OJ990427_28.9924.C2.o7.gp	Method	AAT/GAP
Start	22933	End	23171
GI	57406_2.R1084	Score	377
Exons	22933..23171		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence,		

complete sequence'

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30592	Strand	-
Start	37183	End	37296
Name	OJ990427_28.9924.C2.o11.gp	Method	AAT/GAP
Start	37183	End	37296
GI	2315_5.R1084	Score	91
Exons	37183..37296		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 1.0e-14 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30593	Strand	-
Start	40647	End	44239
Name	OJ990427_28.9924.C2.o9.gs	Method	GENSCAN
Start	40647	End	44239
GI	none	Score	.45
Exons	40647..40796, 41579..41982, 42066..42351, 42622..42896, 43627..43791, 44167..44239		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30593	Strand	-
Start	40647	End	44239
Name	OJ990427_28.9924.C2.o6.np	Method	AAT/NAP
Start	40845	End	42848
GI	1666236	Score	241
Exons	40845..40865, 42223..42848		
GI Descrip.	(U76261) unknown [Hordeum vulgare]		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30594	Strand	-
Start	45933	End	49246
Name	OJ990427_28.9924.C2.o7.np	Method	AAT/NAP
Start	45933	End	49246
GI	5042463	Score	459
Exons	45933..45950, 47822..47942, 48150..48306, 49012..49108, 49159..49246		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30594	Strand	-
Start	45933	End	49246
Name	OJ990427_28.9924.C2.o11.gs	Method	GENSCAN
Start	48145	End	49183
GI	none	Score	.56
Exons	48145..48335, 49012..49183		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30595	Strand	-
Start	68051	End	71681
Name	OJ990427_28.9924.C2.o4.ts	Method	TBLASTX:Soybean
Start	12040	End	62580
GI	none	Score	89
Exons	12040..12438, 12218..12334, 62437..62580		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2

Gene No.	30595	Strand	-
Start	68051	End	71681
Name	OJ990427_28.9924.C2.o3.tm	Method	TBLASTX:Maize
Start	12271	End	12603
GI	none	Score	211
Exons	12271..12603		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30595	Strand	-
Start	68051	End	71681
Name	OJ990427_28.9924.C2.o2.tw	Method	TBLASTX:Wheat
Start	12859	End	13257
GI	none	Score	81
Exons	12859..13128, 13168..13257		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30595	Strand	-
Start	68051	End	71681
Name	OJ990427_28.9924.C2.o2.ts	Method	TBLASTX:Soybean
Start	12890	End	13302
GI	none	Score	139
Exons	12890..13144, 12892..13143, 13165..13302, 13169..13300		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30595	Strand	-
Start	68051	End	71681
Name	OJ990427_28.9924.C2.o3.ts	Method	TBLASTX:Soybean
Start	13453	End	13923
GI	none	Score	80
Exons	13453..13641, 13466..13597, 13642..13923		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30595	Strand	-
Start	68051	End	71681
Name	OJ990427_28.9924.C2.o1.tm	Method	TBLASTX:Maize
Start	13609	End	14070
GI	none	Score	88
Exons	13609..14070, 13610..13753, 13681..13923, 14006..14068		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30595	Strand	-
Start	68051	End	71681
Name	OJ990427_28.9924.C2.o1.tw	Method	TBLASTX:Wheat
Start	13939	End	14343
GI	none	Score	309
Exons	13939..14292, 13982..14284, 14287..14343		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30595	Strand	-
Start	68051	End	71681
Name	OJ990427_28.9924.C2.o2.tm	Method	TBLASTX:Maize
Start	14071	End	14289
GI	none	Score	232
Exons	14071..14289, 14072..14284		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30595	Strand	-

Start	68051	End	71681
Name	OJ990427_28.9924.C2.o5.ts	Method	TBLASTX:Soybean
Start	14140	End	14505
GI	none	Score	143
Exons	14140..14274, 14281..14505		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30595	Strand	-
Start	68051	End	71681
Name	OJ990427_28.9924.C2.o6.ts	Method	TBLASTX:Soybean
Start	14914	End	15279
GI	none	Score	197
Exons	14914..15279		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30595	Strand	-
Start	68051	End	71681
Name	OJ990427_28.9924.C2.o1.ts	Method	TBLASTX:Soybean
Start	55321	End	55562
GI	none	Score	85
Exons	55321..55479, 55323..55562, 55367..55534		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30595	Strand	-
Start	68051	End	71681
Name	OJ990427_28.9924.C2.o1.tc	Method	TBLASTX:Cress
Start	56399	End	57744
GI	none	Score	136
Exons	56399..56554, 56407..56517, 56622..56714, 56634..56714, 57664..57744		

Seq. No.	14331	Seq. ID	OJ990427_28.9924.C2
Gene No.	30595	Strand	-
Start	68051	End	71681
Name	OJ990427_28.9924.C2.o9.np	Method	AAT/NAP
Start	68051	End	71681
GI	4234852	Score	144
Exons	68051..68112, 71255..71530, 71655..71681		
GI Descrip.	(AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30596	Strand	+
Start	14620	End	21158
Name	OJ990427_28.9924.C3.o2.np	Method	AAT/NAP
Start	14620	End	21158
GI	4206306	Score	682
Exons	14620..14644, 18625..18893, 20593..21158		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30597	Strand	+
Start	31087	End	33367
Name	OJ990427_28.9924.C3.o3.gs	Method	GENSCAN
Start	31087	End	33367
GI	none	Score	.43
Exons	31087..31195, 31840..31911, 32576..32847, 32938..33058, 33123..33367		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30598	Strand	+
Start	37921	End	38033
Name	OJ990427_28.9924.C3.o1.gp	Method	AAT/GAP
Start	37921	End	38033
GI	uC-osflcyp088b12b1	Score	143
Exons	37921..38033		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30599	Strand	+
Start	39633	End	39918
Name	OJ990427_28.9924.C3.o6.np	Method	AAT/NAP
Start	39633	End	39918
GI	5042463	Score	112
Exons	39633..39918		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30600	Strand	-
Start	15898	End	18171
Name	OJ990427_28.9924.C3.o1.np	Method	AAT/NAP
Start	15898	End	18171
GI	6498436	Score	223
Exons	15898..16016, 16280..16408, 18124..18171		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30601	Strand	-
Start	23203	End	28458
Name	OJ990427_28.9924.C3.o3.np	Method	AAT/NAP
Start	23184	End	27548
GI	3157943	Score	305
Exons	23184..23588, 27248..27548		
GI Descrip.	(AC002131) Contains similarity to BAP31 protein gb|X81816 from Mus musculus. [Arabidopsis thaliana]		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30601	Strand	-
Start	23203	End	28458
Name	OJ990427_28.9924.C3.o2.gs	Method	GENSCAN
Start	23203	End	28458
GI	none	Score	.91
Exons	23203..23588, 25261..25326, 27248..27566, 27982..28458		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30602	Strand	-
Start	29893	End	31318
Name	OJ990427_28.9924.C3.o4.np	Method	AAT/NAP
Start	29893	End	31318
GI	5852084	Score	82
Exons	29893..29967, 31286..31318		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3

Gene No.	30603	Strand	-
Start	34156	End	39918
Name	OJ990427_28.9924.C3.o3.tm	Method	TBLASTX:Maize
Start	6228	End	6585
GI	none	Score	41
Exons	6228..6248, 6262..6585, 6302..6583		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30603	Strand	-
Start	34156	End	39918
Name	OJ990427_28.9924.C3.o1.tw	Method	TBLASTX:Wheat
Start	18651	End	20745
GI	none	Score	81
Exons	18651..18707, 18656..18697, 18702..18992, 18709..18942, 18710..18943, 18711..18950, 20611..20745		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30603	Strand	-
Start	34156	End	39918
Name	OJ990427_28.9924.C3.o1.tm	Method	TBLASTX:Maize
Start	18705	End	18965
GI	none	Score	351
Exons	18705..18965, 18710..18949		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30603	Strand	-
Start	34156	End	39918
Name	OJ990427_28.9924.C3.o2.tm	Method	TBLASTX:Maize
Start	20662	End	21044
GI	none	Score	156
Exons	20662..20823, 20693..20830, 20709..20888, 20825..21031, 20826..21044		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30603	Strand	-
Start	34156	End	39918
Name	OJ990427_28.9924.C3.o2.tw	Method	TBLASTX:Wheat
Start	20816	End	21133
GI	none	Score	257
Exons	20816..21031, 20826..21044, 20826..21035, 21047..21133		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30603	Strand	-
Start	34156	End	39918
Name	OJ990427_28.9924.C3.o1.ts	Method	TBLASTX:Soybean
Start	20829	End	21157
GI	none	Score	176
Exons	20829..21044, 20831..20956, 21058..21105, 21059..21157		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30603	Strand	-
Start	34156	End	39918
Name	OJ990427_28.9924.C3.o2.ts	Method	TBLASTX:Soybean
Start	23207	End	23580
GI	none	Score	84
Exons	23207..23326, 23209..23463, 23449..23580		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30603	Strand	-
Start	34156	End	39918
Name	OJ990427_28.9924.C3.o4.tm	Method	TBLASTX:Maize
Start	23257	End	27554
GI	none	Score	59
Exons	23257..23475, 23258..23326, 23420..23518, 23467..23589, 23468..23590, 27240..27311, 27246..27305, 27342..27554, 27343..27552		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30603	Strand	-
Start	34156	End	39918
Name	OJ990427_28.9924.C3.o3.ts	Method	TBLASTX:Soybean
Start	27237	End	27548
GI	none	Score	158
Exons	27237..27314, 27342..27548		

Seq. No.	14332	Seq. ID	OJ990427_28.9924.C3
Gene No.	30603	Strand	-
Start	34156	End	39918
Name	OJ990427_28.9924.C3.o5.np	Method	AAT/NAP
Start	34156	End	39918
GI	4680183	Score	87
Exons	34156..34276, 39796..39918		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	14333	Seq. ID	OJ990427_28.9924.C4
Gene No.	30604	Strand	+
Start	164	End	436
Name	OJ990427_28.9924.C4.o1.gs	Method	GENSCAN
Start	164	End	436
GI	none	Score	.42
Exons	164..436		

Seq. No.	14334	Seq. ID	OJ990427_28.9924.C5
Gene No.	30605	Strand	+
Start	69	End	765
Name	OJ990427_28.9924.C5.o1.gs	Method	GENSCAN
Start	69	End	765
GI	none	Score	.45
Exons	69..274, 489..595, 656..765		

Seq. No.	14335	Seq. ID	OJ990427_28.9924.C6
Gene No.	30606	Strand	+
Start	102	End	593
Name	OJ990427_28.9924.C6.o1.gs	Method	GENSCAN
Start	102	End	593
GI	none	Score	.49
Exons	102..387, 446..593		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30607	Strand	+
Start	9635	End	9913
Name	OJ990427_24.9922.C1.o3.gs	Method	GENSCAN
Start	9635	End	9913
GI	none	Score	1

Exons	9635..9913		
Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30608	Strand	+
Start	10301	End	11334
Name	OJ990427_24.9922.C1.o4.gs	Method	GENSCAN
Start	10301	End	11334
GI	none	Score	.94
Exons	10301..10396, 11068..11334		
Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30609	Strand	+
Start	14464	End	15308
Name	OJ990427_24.9922.C1.o6.gs	Method	GENSCAN
Start	14464	End	15308
GI	none	Score	.83
Exons	14464..14587, 15133..15308		
Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30610	Strand	+
Start	21966	End	23864
Name	OJ990427_24.9922.C1.o8.gs	Method	GENSCAN
Start	21966	End	23864
GI	none	Score	.48
Exons	21966..22155, 23586..23752, 23859..23864		
Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30611	Strand	+
Start	25601	End	27733
Name	OJ990427_24.9922.C1.o9.gs	Method	GENSCAN
Start	25601	End	27733
GI	none	Score	.89
Exons	25601..25724, 25822..25964, 26818..26952, 27410..27733		
Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30612	Strand	+
Start	37178	End	39069
Name	OJ990427_24.9922.C1.o12.gs	Method	GENSCAN
Start	37178	End	38701
GI	none	Score	.84
Exons	37178..37437, 37504..37657, 37968..38081, 38627..38701		
Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30612	Strand	+
Start	37178	End	39069
Name	OJ990427_24.9922.C1.o4.np	Method	AAT/NAP
Start	37244	End	39069
GI	5882718	Score	848
Exons	37244..37657, 37763..37858, 37968..38081, 38459..38536, 38609..38701, 38998..39069		
GI Descrip.	(AC008263) ESTs gb|AA067482 and gb|AI100542 come from this gene. [Arabidopsis thaliana]		
Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30613	Strand	-
Start	5865	End	11411
Name	OJ990427_24.9922.C1.o1.np	Method	AAT/NAP

Start	4837	End	11411
GI	6466937	Score	962
Exons	4837..4877, 6069..7870, 11368..11411		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30613	Strand	-
Start	5865	End	11411
Name	OJ990427_24.9922.C1.o2.gs	Method	GENSCAN
Start	5865	End	9369
GI	none	Score	.55
Exons	5865..6241, 6243..6570, 6620..7087, 7461..7891, 7903..8089, 8205..8878, 8880..9369		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30614	Strand	-
Start	11898	End	13607
Name	OJ990427_24.9922.C1.o5.gs	Method	GENSCAN
Start	11898	End	13607
GI	none	Score	.76
Exons	11898..11953, 12017..12142, 13328..13493, 13554..13607		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30614	Strand	-
Start	11898	End	13607
Name	OJ990427_24.9922.C1.o1.gp	Method	AAT/GAP
Start	12461	End	12839
GI	none	Score	681
Exons	12461..12839		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30615	Strand	-
Start	16267	End	17482
Name	OJ990427_24.9922.C1.o2.np	Method	AAT/NAP
Start	16267	End	17482
GI	5295937	Score	1375
Exons	16267..16864, 17234..17482		
GI Descrip.	(AB026295) hypothetical protein [Oryza sativa]		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30616	Strand	-
Start	18471	End	18623
Name	OJ990427_24.9922.C1.o3.np	Method	AAT/NAP
Start	18471	End	18623
GI	6721512	Score	56
Exons	18471..18623		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30617	Strand	-
Start	29750	End	30957
Name	OJ990427_24.9922.C1.o5.tm	Method	TBLASTX:Maize
Start	5900	End	6144
GI	none	Score	103
Exons	5900..6076, 5902..6090, 6085..6144		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30617	Strand	-
Start	29750	End	30957
Name	OJ990427_24.9922.C1.o3.tm	Method	TBLASTX:Maize
Start	6415	End	6949
GI	none	Score	102
Exons	6415..6588, 6588..6692, 6695..6760, 6806..6949		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30617	Strand	-
Start	29750	End	30957
Name	OJ990427_24.9922.C1.o1.tw	Method	TBLASTX:Wheat
Start	7266	End	7679
GI	none	Score	239
Exons	7266..7679		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30617	Strand	-
Start	29750	End	30957
Name	OJ990427_24.9922.C1.o1.tm	Method	TBLASTX:Maize
Start	7491	End	7802
GI	none	Score	231
Exons	7491..7802, 7492..7800		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30617	Strand	-
Start	29750	End	30957
Name	OJ990427_24.9922.C1.o4.tm	Method	TBLASTX:Maize
Start	8172	End	8660
GI	none	Score	56
Exons	8172..8312, 8279..8440, 8307..8450, 8502..8561, 8505..8561, 8586..8657, 8592..8660		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30617	Strand	-
Start	29750	End	30957
Name	OJ990427_24.9922.C1.o2.ts	Method	TBLASTX:Soybean
Start	16766	End	17398
GI	none	Score	149
Exons	16766..16852, 17204..17398, 17226..17357		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30617	Strand	-
Start	29750	End	30957
Name	OJ990427_24.9922.C1.o10.gs	Method	GENSCAN
Start	29750	End	30957
GI	none	Score	.53
Exons	29750..29902, 30228..30322, 30792..30957		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30618	Strand	
Start	37262	End	37626
Name	OJ990427_24.9922.C1.o1.ts	Method	TBLASTX:Soybean
Start	37262	End	37626
GI	none	Score	461
Exons	37262..37624, 37270..37626		

Seq. No.	14336	Seq. ID	OJ990427_24.9922.C1
Gene No.	30618	Strand	
Start	37262	End	37626
Name	OJ990427_24.9922.C1.o2.tm	Method	TBLASTX:Maize
Start	37262	End	37443
GI	none	Score	296
Exons	37262..37441, 37270..37443		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30619	Strand	+
Start	4650	End	4903
Name	OJ990427_24.9922.C2.o2.gp	Method	AAT/GAP
Start	4650	End	4903
GI	none	Score	360
Exons	4650..4903		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30620	Strand	+
Start	5931	End	6231
Name	OJ990427_24.9922.C2.o3.gp	Method	AAT/GAP
Start	5931	End	6231
GI	2799414	Score	515
Exons	5931..6231		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30621	Strand	-
Start	345	End	1020
Name	OJ990427_24.9922.C2.o1.gp	Method	AAT/GAP
Start	183	End	1020
GI	uC-osflcyp019b11b1	Score	794
Exons	183..563, 986..1020		
GI Descrip.	'405533 5.0e-26 (L20139) homology with pectate lyase [Zea mays]'		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30621	Strand	-
Start	345	End	1020
Name	OJ990427_24.9922.C2.o1.gs	Method	GENSCAN
Start	345	End	572
GI	none	Score	.94
Exons	345..572		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30622	Strand	-
Start	976	End	2633
Name	OJ990427_24.9922.C2.o2.gs	Method	GENSCAN
Start	976	End	2633
GI	none	Score	.81
Exons	976..1191, 1373..1429, 1467..2070, 2386..2633		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30623	Strand	-
Start	6862	End	8485
Name	OJ990427_24.9922.C2.o4.gp	Method	AAT/GAP
Start	6862	End	8485
GI	5003807	Score	704
Exons	6862..6988, 7465..7518, 8118..8201, 8349..8485		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o8.tw	Method	TBLASTX:Wheat
Start	291	End	1029
GI	none	Score	101
Exons	291..503, 342..557, 352..579, 991..1029		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o1.ts	Method	TBLASTX:Soybean
Start	342	End	2048
GI	none	Score	132
Exons	342..605, 352..603, 989..1192, 1000..1200, 1129..1200, 1379..1435, 1380..1424, 1440..1688, 1441..1686, 1683..2048, 1684..1881		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o1.tc	Method	TBLASTX:Cress
Start	345	End	2537
GI	none	Score	212
Exons	345..428, 459..557, 989..1192, 1000..1191, 1379..1435, 1386..1436, 1440..1682, 1441..1605, 1642..1683, 1683..2066, 1684..1875, 1933..2022, 2424..2537		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o1.tm	Method	TBLASTX:Maize
Start	459	End	10264
GI	none	Score	110
Exons	459..563, 460..564, 989..1198, 989..1039, 991..1200, 1129..1203, 1353..1427, 1372..1428, 1373..1435, 1373..1435, 1440..1682, 1441..1683, 1683..2030, 1684..1884, 1921..2040, 1939..2037, 2410..2529, 2418..2537, 10145..10264		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o7.tw	Method	TBLASTX:Wheat
Start	1373	End	1683
GI	none	Score	59
Exons	1373..1435, 1379..1435, 1440..1682, 1441..1683		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o1.np	Method	AAT/NAP
Start	8920	End	14199
GI	4539660	Score	3409
Exons	8920..11862, 11929..12352, 12623..13655, 14163..14199		
GI Descrip.	(AF061282) polyprotein [Sorghum bicolor]		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2

Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o6.tw	Method	TBLASTX:Wheat
Start	8930	End	9264
GI	none	Score	42
Exons	8930..9091, 8932..9264, 9128..9253		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o2.tm	Method	TBLASTX:Maize
Start	9115	End	9711
GI	none	Score	111
Exons	9115..9549, 9116..9313, 9292..9393, 9410..9550, 9553..9711, 9554..9700		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o1.tw	Method	TBLASTX:Wheat
Start	9265	End	9891
GI	none	Score	188
Exons	9265..9891, 9455..9886		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o3.ts	Method	TBLASTX:Soybean
Start	9739	End	10113
GI	none	Score	57
Exons	9739..9921, 9740..9811, 9896..10099, 9934..10113		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o5.tm	Method	TBLASTX:Maize
Start	9838	End	10101
GI	none	Score	259
Exons	9838..10101, 9842..10099		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o3.tw	Method	TBLASTX:Wheat
Start	9898	End	10356
GI	none	Score	225
Exons	9898..10356, 9899..10273		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o3.tm	Method	TBLASTX:Maize
Start	10454	End	10812
GI	none	Score	287
Exons	10454..10810, 10456..10812, 10459..10812		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2

Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o2.tw	Method	TBLASTX:Wheat
Start	10456	End	10881
GI	none	Score	55
Exons	10456..10881, 10457..10495, 10471..10827, 10514..10879		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o4.ts	Method	TBLASTX:Soybean
Start	10627	End	10872
GI	none	Score	37
Exons	10627..10872, 10631..10690, 10730..10870		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o4.tm	Method	TBLASTX:Maize
Start	10846	End	11347
GI	none	Score	78
Exons	10846..11181, 10891..11058, 10958..11137, 11161..11346, 11213..11347		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o5.tw	Method	TBLASTX:Wheat
Start	10882	End	11184
GI	none	Score	177
Exons	10882..11184, 10886..11173		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o2.ts	Method	TBLASTX:Soybean
Start	10897	End	11256
GI	none	Score	219
Exons	10897..11256, 10898..11254		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o4.tw	Method	TBLASTX:Wheat
Start	11233	End	11715
GI	none	Score	271
Exons	11233..11604, 11237..11647, 11483..11704, 11665..11715		

Seq. No.	14337	Seq. ID	OJ990427_24.9922.C2
Gene No.	30624	Strand	-
Start	8920	End	14199
Name	OJ990427_24.9922.C2.o6.tm	Method	TBLASTX:Maize
Start	11359	End	11745
GI	none	Score	107
Exons	11359..11595, 11417..11575, 11662..11745		

Seq. No.	14338	Seq. ID	OJ990427_24.9922.C3

Gene No.	30625	Strand	+
Start	2077	End	2397
Name	OJ990427_24.9922.C3.o1.gs	Method	GENSCAN
Start	2077	End	2397
GI	none	Score	.83
Exons	2077..2397		

Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30626	Strand	+
Start	3421	End	3684
Name	OJ990427_24.9922.C4.o1.gp	Method	AAT/GAP
Start	3421	End	3684
GI	1632149	Score	504
Exons	3421..3684		

Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30627	Strand	+
Start	11785	End	12299
Name	OJ990427_24.9922.C4.o3.gs	Method	GENSCAN
Start	11785	End	12299
GI	none	Score	.81
Exons	11785..12299		

Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30628	Strand	-
Start	4336	End	5240
Name	OJ990427_24.9922.C4.o1.np	Method	AAT/NAP
Start	4336	End	5240
GI	6522592	Score	314
Exons	4336..4494, 4523..4713, 4970..5240		
GI Descrip.	(AL133292) receptor protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o1.tw	Method	TBLASTX:Wheat
Start	2848	End	10542
GI	none	Score	60
Exons	2848..2928, 10255..10542, 10256..10537		

Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o2.ts	Method	TBLASTX:Soybean
Start	3854	End	10441
GI	none	Score	207
Exons	3854..3928, 9359..9415, 10256..10441, 10258..10440		

Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o4.tm	Method	TBLASTX:Maize
Start	4198	End	4715
GI	none	Score	74
Exons	4198..4251, 4342..4461, 4526..4714, 4527..4715		

Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o4.ts	Method	TBLASTX:Soybean
Start	4526	End	5189
GI	none	Score	43
Exons	4526..4714, 4850..4876, 4877..4912, 5009..5188, 5036..5182, 5052..5189		

Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o2.np	Method	AAT/NAP
Start	6760	End	12322
GI	3023947	Score	1827
Exons	6760..6864, 7047..7124, 8841..8901, 8984..9075, 9185..9415, 10255..10695, 11782..12322		
GI Descrip.	PROBABLE HISTONE DEACETYLASE (RPD3 HOMOLOG) gi|2665840 (AF035815) putative histone deacetylase RPD3 [Zea mays]		

Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o2.gp	Method	AAT/GAP
Start	6762	End	10457
GI	20921_1.R1084	Score	1177
Exons	6762..6864, 7047..7124, 8841..8901, 8984..9075, 9185..9415, 10255..10457		
GI Descrip.	'3023947/sp|P56521|HDAC_MAIZE 6.0e-75 PROBABLE HISTONE DEACETYLASE (RPD3 HOMOLOG) >gi_2665840 (AF035815) putative histone deacetylase RPD3 [Zea mays]'		

Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o1.tm	Method	TBLASTX:Maize
Start	7042	End	11970
GI	none	Score	103
Exons	7042..7134, 7047..7130, 8982..9077, 8988..9080, 9185..9418, 9186..9416, 9187..9417, 10255..10713, 10256..10693, 10260..10724, 11782..11901, 11792..11902, 11905..11970, 11906..11959		

Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o3.tm	Method	TBLASTX:Maize
Start	7297	End	7734
GI	none	Score	249
Exons	7297..7734, 7428..7616		

Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o2.gs	Method	GENSCAN
Start	8717	End	10716
GI	none	Score	.91

Exons	8717..8734, 8841..8901, 8984..9075, 9185..9415, 10255..10716		
Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o1.tc	Method	TBLASTX:Cress
Start	9182	End	12292
GI	none	Score	194
Exons	9182..9418, 9183..9416, 9310..9432, 10255..10698, 10256..10696, 11782..12135, 11783..12136, 12092..12292, 12148..12291		
Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o3.ts	Method	TBLASTX:Soybean
Start	9185	End	9359
GI	none	Score	147
Exons	9185..9358, 9201..9359		
Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o1.ts	Method	TBLASTX:Soybean
Start	10441	End	12289
GI	none	Score	80
Exons	10441..10698, 10605..10697, 11782..12135, 11792..12004, 12038..12130, 12148..12288, 12155..12289		
Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o3.gp	Method	AAT/GAP
Start	11782	End	12322
GI	31559_1.R1084	Score	827
Exons	11782..12322		
GI Descrip.	'3023945/sp|O22446|HDAC_ARATH 2.0e-81 HISTONE DEACETYLASE (HD) >gi_2318131 (AF014824) histone deacetylase [Arabidopsis thaliana]'		
Seq. No.	14339	Seq. ID	OJ990427_24.9922.C4
Gene No.	30629	Strand	-
Start	6760	End	12322
Name	OJ990427_24.9922.C4.o2.tm	Method	TBLASTX:Maize
Start	11971	End	12280
GI	none	Score	160
Exons	11971..12138, 11972..12136, 12092..12280, 12148..12279		
Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30630	Strand	+
Start	996	End	3360
Name	OJ990427_24.9922.C5.o1.gs	Method	GENSCAN
Start	996	End	3360
GI	none	Score	.59
Exons	996..1007, 1413..1511, 2872..3360		
Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30631	Strand	+

Start	16412	End	22106
Name	OJ990427_24.9922.C5.o2.gp	Method	AAT/GAP
Start	16412	End	17107
GI	31559_1.R1084	Score	1206
Exons	16412..17107		
GI Descrip.	'3023945/sp|O22446|HDAC_ARATH 2.0e-81 HISTONE DEACETYLASE (HD) >gi_2318131 (AF014824) histone deacetylase [Arabidopsis thaliana]'		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30631	Strand	+
Start	16412	End	22106
Name	OJ990427_24.9922.C5.o1.np	Method	AAT/NAP
Start	16553	End	22106
GI	3023947	Score	1885
Exons	16553..17107, 18072..18512, 19271..19501, 19618..19709, 19791..19851, 21777..21854, 22002..22106		
GI Descrip.	PROBABLE HISTONE DEACETYLASE (RPD3 HOMOLOG) gi|2665840 (AF035815) putative histone deacetylase RPD3 [Zea mays]		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30631	Strand	+
Start	16412	End	22106
Name	OJ990427_24.9922.C5.o4.gs	Method	GENSCAN
Start	17825	End	20922
GI	none	Score	.74
Exons	17825..17836, 18072..18512, 19271..19501, 19618..19709, 19791..19851, 20206..20363, 20365..20715, 20784..20922		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30631	Strand	+
Start	16412	End	22106
Name	OJ990427_24.9922.C5.o3.gp	Method	AAT/GAP
Start	18310	End	22097
GI	20921_1.R1084	Score	1274
Exons	18310..18512, 19271..19501, 19618..19709, 19791..19851, 21777..21854, 22002..22097		
GI Descrip.	'3023947/sp|P56521|HDAC_MAIZE 6.0e-75 PROBABLE HISTONE DEACETYLASE (RPD3 HOMOLOG) >gi_2665840 (AF035815) putative histone deacetylase RPD3 [Zea mays]'		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30632	Strand	+
Start	28278	End	31806
Name	OJ990427_24.9922.C5.o6.gs	Method	GENSCAN
Start	28278	End	31806
GI	none	Score	.45
Exons	28278..28311, 28465..28477, 28501..28682, 28711..28795, 29806..29911, 31646..31694, 31712..31806		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30633	Strand	-
Start	3999	End	10830
Name	OJ990427_24.9922.C5.o2.gs	Method	GENSCAN
Start	3999	End	10830
GI	none	Score	.74
Exons	3999..4073, 4199..4285, 4809..5011, 5505..5616, 5846..5950,		

6170..6220, 7482..7537, 8008..8077, 8512..8616, 8749..8861, 9590..9791, 9859..10830

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30634	Strand	-
Start	12428	End	17104
Name	OJ990427_24.9922.C5.o3.gs	Method	GENSCAN
Start	12428	End	17104
GI	none	Score	.43
Exons	12428..12563, 12759..12888, 13079..13197, 13281..13426, 14124..14214, 14985..15075, 15256..15280, 16481..17104		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30635	Strand	-
Start	21443	End	27448
Name	OJ990427_24.9922.C5.o5.gs	Method	GENSCAN
Start	21443	End	27442
GI	none	Score	.52
Exons	21443..21503, 21672..21770, 22137..22258, 23594..23821, 23861..24087, 24334..24774, 25003..25168, 25406..26863, 27047..27153, 27271..27442		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30635	Strand	-
Start	21443	End	27448
Name	OJ990427_24.9922.C5.o2.np	Method	AAT/NAP
Start	23486	End	27448
GI	6623973	Score	2516
Exons	23486..27448		
GI Descrip.	(AC007505) Highly similar to Ta1-3 polyprotein [Arabidopsis thaliana]		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o8.tm	Method	TBLASTX:Maize
Start	3157	End	6223
GI	none	Score	167
Exons	3157..3336, 3157..3339, 3158..3340, 4193..4288, 4197..4286, 4197..4289, 4198..4311, 4806..5006, 4809..4997, 4816..5013, 5479..5583, 5571..5621, 5694..5741, 5695..5742, 5837..5950, 5846..5950, 5850..5951, 5850..5957, 6169..6222, 6171..6221, 6173..6223		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o6.tm	Method	TBLASTX:Maize
Start	7991	End	9695
GI	none	Score	109
Exons	7991..8080, 8003..8080, 8004..8087, 8503..8616, 8513..8617, 8723..8863, 8749..8868, 8749..8862, 8750..8863, 9575..9649, 9576..9695, 9577..9687		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956

Name	OJ990427_24.9922.C5.o4.tm	Method	TBLASTX:Maize
Start	16570	End	16918
GI	none	Score	199
Exons	16570..16737, 16610..16738, 16754..16918, 16795..16842, 16867..16917		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o1.ts	Method	TBLASTX:Soybean
Start	16576	End	18326
GI	none	Score	227
Exons	16576..16620, 16600..16734, 16610..16741, 16634..16741, 16753..16851, 16754..17107, 16885..17097, 18069..18326, 18070..18171		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o1.tc	Method	TBLASTX:Cress
Start	16597	End	19504
GI	none	Score	238
Exons	16597..16740, 16610..16786, 16753..17106, 16754..17107, 18069..18521, 18071..18532, 19254..19376, 19268..19504, 19268..19492, 19270..19503		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o1.tm	Method	TBLASTX:Maize
Start	16919	End	22067
GI	none	Score	96
Exons	16919..16984, 16930..16983, 16987..17097, 16988..17107, 18043..18507, 18054..18521, 18074..18511, 18117..18512, 19268..19501, 19270..19500, 19616..19711, 21767..21859, 21771..21854, 22005..22067		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o2.tw	Method	TBLASTX:Wheat
Start	18225	End	18521
GI	none	Score	460
Exons	18225..18521, 18229..18507, 18230..18511		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o4.ts	Method	TBLASTX:Soybean
Start	18326	End	19327
GI	none	Score	294
Exons	18326..18511, 18327..18521, 19271..19327		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o6.ts	Method	TBLASTX:Soybean

Start	19327	End	19501
GI	none	Score	204
Exons	19327..19485, 19328..19501		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o2.tm	Method	TBLASTX:Maize
Start	23495	End	23917
GI	none	Score	314
Exons	23495..23917, 23499..23900		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o3.tc	Method	TBLASTX:Cress
Start	23495	End	23974
GI	none	Score	77
Exons	23495..23707, 23723..23860, 23879..23974		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o3.ts	Method	TBLASTX:Soybean
Start	23498	End	23896
GI	none	Score	53
Exons	23498..23611, 23505..23603, 23621..23896, 23624..23887		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o5.tw	Method	TBLASTX:Wheat
Start	23522	End	23975
GI	none	Score	54
Exons	23522..23722, 23523..23711, 23738..23890, 23741..23944, 23754..23975		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o5.tm	Method	TBLASTX:Maize
Start	24002	End	24416
GI	none	Score	183
Exons	24002..24295, 24006..24281, 24257..24415, 24327..24416		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o1.tw	Method	TBLASTX:Wheat
Start	24068	End	24847
GI	none	Score	67
Exons	24068..24523, 24312..24524, 24518..24847, 24564..24845		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o3.tm	Method	TBLASTX:Maize

Start	24434	End	24851
GI	none	Score	104
Exons	24434..24850, 24552..24851		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o2.ts	Method	TBLASTX:Soybean
Start	24437	End	24826
GI	none	Score	106
Exons	24437..24826, 24478..24702, 24534..24824		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o4.tc	Method	TBLASTX:Cress
Start	24644	End	24850
GI	none	Score	65
Exons	24644..24850, 24678..24845		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o3.tw	Method	TBLASTX:Wheat
Start	24848	End	25118
GI	none	Score	226
Exons	24848..25117, 24849..25118		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o2.tc	Method	TBLASTX:Cress
Start	25208	End	25753
GI	none	Score	75
Exons	25208..25456, 25472..25543, 25556..25678, 25655..25753		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o5.ts	Method	TBLASTX:Soybean
Start	25319	End	25786
GI	none	Score	43
Exons	25319..25468, 25454..25582, 25455..25583, 25547..25708, 25655..25786, 25659..25778		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o4.tw	Method	TBLASTX:Wheat
Start	25352	End	26021
GI	none	Score	142
Exons	25352..25456, 25473..25532, 25655..26020, 25656..26021		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o7.tm	Method	TBLASTX:Maize

Start	25556	End	26029
GI	none	Score	94
Exons	25556..25684, 25655..26029, 25659..25895		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o6.tw	Method	TBLASTX:Wheat
Start	26692	End	27080
GI	none	Score	40
Exons	26692..26829, 26740..26781, 26807..26878, 26867..26977, 26878..26934, 26963..27079, 26964..27080		

Seq. No.	14340	Seq. ID	OJ990427_24.9922.C5
Gene No.	30636	Strand	-
Start	32365	End	34956
Name	OJ990427_24.9922.C5.o7.gs	Method	GENSCAN
Start	32365	End	34956
GI	none	Score	.71
Exons	32365..32509, 32641..32759, 33389..33421, 33633..33689, 34801..34956		

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30637	Strand	+
Start	1486	End	6347
Name	OJ990427_24.9922.C6.o1.gs	Method	GENSCAN
Start	1486	End	6347
GI	none	Score	.87
Exons	1486..1613, 2146..2282, 2740..5657, 5929..6347		

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30637	Strand	+
Start	1486	End	6347
Name	OJ990427_24.9922.C6.o1.np	Method	AAT/NAP
Start	2619	End	6333
GI	2130082	Score	1954
Exons	2619..3593, 3960..5657, 5929..6333		
GI Descrip.	protein kinase Xa21 (EC 2.7.1.-) - rice gi|1122443 (U37133) receptor kinase-like protein [Oryza sativa] gi|2586085 (U72723) receptor kinase-like protein [Oryza longistaminata] gi|1586408|prf||2203451A receptor kinase-like protein [Oryza sativa]		

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30638	Strand	+
Start	7457	End	10400
Name	OJ990427_24.9922.C6.o2.gs	Method	GENSCAN
Start	7457	End	10400
GI	none	Score	.5
Exons	7457..7848, 8258..8369, 8396..8619, 8662..8771, 8795..8962, 9690..9749, 9922..10400		

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30639	Strand	-
Start	10630	End	14267
Name	OJ990427_24.9922.C6.o3.gs	Method	GENSCAN
Start	10630	End	14267

GI	none	Score	.68
Exons	10630..11030, 11235..12371, 12818..12873, 13084..13273, 13613..14267		

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30639	Strand	-
Start	10630	End	14267
Name	OJ990427_24.9922.C6.o2.np	Method	AAT/NAP
Start	10651	End	14267
GI	2586083	Score	1901
Exons	10651..11030, 11235..13356, 13786..14267		
GI Descrip.	(U72725) receptor kinase-like protein [Oryza longistaminata]		

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30640	Strand	-
Start	16610	End	19601
Name	OJ990427_24.9922.C6.o1.tc	Method	TBLASTX:Cress
Start	2804	End	14021
GI	none	Score	43
Exons	2804..2827, 2845..2985, 2846..3406, 2855..3352, 2855..3406, 2864..3295, 2864..3475, 2885..3406, 2962..3048, 2963..3406, 3008..3409, 3023..3406, 3034..3261, 3064..3222, 3086..3406, 3091..3399, 3094..3405, 3152..3409, 3169..3306, 3169..3336, 3205..3333, 3241..3366, 3250..3351, 3287..3412, 3310..3411, 3404..3547, 3404..3547, 3404..3700, 3409..3690, 3419..3547, 3419..3550, 3427..3681, 3428..3637, 3455..3550, 3463..3621, 3520..3690, 3608..3763, 3608..3700, 3608..3700, 3608..3700, 3608..3694, 3659..3811, 3791..3922, 3806..3922, 3938..4123, 3974..4096, 3974..4123, 3977..4093, 4004..4084, 4010..4090, 4080..4160, 4096..4188, 4097..4378, 4097..4168, 4097..4366, 4097..4234, 4103..4327, 4103..4378, 4126..4377, 4127..4381, 4127..4375, 4127..4438, 4132..4284, 4135..4293, 4138..4368, 4175..4465, 4184..4381, 4279..4374, 4280..4417, 4283..4384, 4283..4366, 4396..4434, 4397..4474, 4466..4654, 4469..4669, 4469..4654, 4471..4596, 4472..4663, 4472..4669, 4478..4651, 4484..4669, 4484..4603, 4487..4654, 4492..4581, 4493..4675, 4495..4803, 4532..4663, 4535..4663, 4616..4798, 4721..4798, 4721..4846, 4733..4858, 5119..5151, 5186..5290, 5414..5590, 5928..6029, 10930..11031, 11302..11493, 11506..11553, 11602..11706, 12010..12162, 12011..12241, 12013..12162, 12022..12150, 12037..12162, 12041..12256, 12229..12390, 12229..12324, 12229..12390, 12229..12387, 12229..12351, 12229..12390, 12229..12390, 12229..12390, 12232..12390, 12238..12390, 12263..12391, 12289..12390, 12393..12494, 12438..12494, 12447..12491, 12447..12494, 12517..12600, 12585..12803, 12585..12770, 12585..12713, 12585..12779, 12588..12770, 12588..12779, 12588..12782, 12588..12770, 12588..12803, 12588..12764, 12591..12782, 12636..12779, 12649..12759, 12753..12872, 12753..12908, 12786..12872, 12786..12854, 12789..12875, 12789..12872, 12798..12878, 12801..12881, 12951..12995, 12960..13067, 12972..13118, 13104..13139, 13206..13292, 13206..13286, 13260..14021, 13281..13421, 13281..13421, 13281..13421, 13479..14021, 13479..14000, 13479..13949, 13479..13898, 13482..14021, 13530..14000, 13537..13779, 13624..13851, 13624..13806, 13624..13788		

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30640	Strand	-
Start	16610	End	19601
Name	OJ990427_24.9922.C6.o2.ts	Method	TBLASTX:Soybean
Start	2843	End	14021
GI	none	Score	141

Exons 2843..3121, 2855..3406, 2855..3193, 2864..3478, 2885..3406, 2962..3045, 2990..3406, 3034..3405, 3034..3261, 3086..3409, 3094..3336, 3166..3333, 3215..3409, 3404..3700, 3410..3547, 3419..3547, 3419..3550, 3451..3618, 3608..3700, 3608..3694, 3608..3772, 3608..3700, 3652..3780, 3782..3910, 3815..3922, 3815..3910, 3974..4123, 4001..4081, 4004..4129, 4097..4381, 4102..4296, 4127..4378, 4127..4381, 4127..4237, 4129..4293, 4135..4365, 4172..4375, 4280..4381, 4310..4381, 4444..4725, 4466..4795, 4472..4798, 4472..4798, 4472..4663, 12010..12162, 12085..12390, 12229..12390, 12229..12390, 12229..12297, 12229..12390, 12229..12390, 12238..12390, 12414..12485, 12441..12485, 12445..12495, 12498..12521, 12499..12684, 12504..12785, 12517..12612, 12585..12791, 12588..12770, 12588..12782, 12588..12779, 12588..12782, 12589..12759, 12591..12782, 12753..12908, 12783..12878, 12786..12872, 12786..12854, 12801..12881, 12955..13068, 12960..13118, 13104..13139, 13104..13136, 13110..13289, 13206..13289, 13206..13289, 13206..13286, 13258..13434, 13281..13421, 13281..13421, 13281..13421, 13281..13421, 13294..13431, 13474..13857, 13479..14021, 13479..14000, 13479..13949, 13479..13751, 13479..13814, 13482..14021, 13543..13854, 13692..14021

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30640	Strand	-
Start	16610	End	19601
Name	OJ990427_24.9922.C6.o2.tm	Method	TBLASTX:Maize
Start	2852	End	14021
GI	none	Score	187

Exons 2852..2974, 2861..3334, 2864..3271, 2891..3136, 2963..3700, 3002..3406, 3023..3280, 3091..3342, 3146..3409, 3151..3333, 3229..3408, 3514..3621, 3535..3774, 3785..3910, 3788..3922, 3791..3910, 4004..4084, 4010..4093, 4100..4492, 4127..4381, 4127..4231, 4198..4365, 4210..4581, 4466..4591, 4466..4591, 4469..4663, 4469..4801, 4469..4663, 4472..4663, 4487..4798, 4495..4662, 4535..4798, 12085..12165, 12229..12390, 12229..12390, 12229..12390, 12447..12494, 12498..12701, 12507..12770, 12588..12782, 12588..12779, 12753..12920, 12960..13091, 12972..13094, 13251..13421, 13260..13421, 13279..13428, 13281..13421, 13479..13577, 13479..13955, 13522..13851, 13533..13808, 13549..13968, 13551..14021, 13614..14000, 13614..13877, 13624..13779, 13624..13950, 13698..13865, 13749..13994, 13824..14021

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30640	Strand	-
Start	16610	End	19601
Name	OJ990427_24.9922.C6.o1.tw	Method	TBLASTX:Wheat
Start	3131	End	13994
GI	none	Score	99

Exons 3131..3316, 3203..3385, 3422..3499, 3739..3924, 3752..3922,

3782..3871, 3952..4149, 3959..4147, 4007..4093, 12735..12929,
12949..13143, 12960..13136, 13047..13139, 13264..13365,
13360..13482, 13668..13793, 13749..13868, 13830..13871,
13851..13994

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30640	Strand	-
Start	16610	End	19601
Name	OJ990427_24.9922.C6.o1.ts	Method	TBLASTX:Soybean
Start	5072	End	11818
GI	none	Score	99
Exons	5072..5161, 5077..5154, 5185..5373, 5186..5383, 5419..5586, 5420..5599, 5468..5599, 5927..6121, 5928..6122, 6168..6284, 10663..10800, 10837..11031, 10838..11032, 11236..11265, 11290..11472, 11293..11424, 11509..11706, 11512..11706, 11519..11707, 11698..11817, 11735..11818		

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30640	Strand	-
Start	16610	End	19601
Name	OJ990427_24.9922.C6.o1.tm	Method	TBLASTX:Maize
Start	5213	End	11679
GI	none	Score	385
Exons	5213..5599, 5218..5574, 11284..11679, 11318..11662		

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30640	Strand	-
Start	16610	End	19601
Name	OJ990427_24.9922.C6.o2.tw	Method	TBLASTX:Wheat
Start	5419	End	11472
GI	none	Score	186
Exons	5419..5460, 5435..5656, 5555..5665, 11236..11472		

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30640	Strand	-
Start	16610	End	19601
Name	OJ990427_24.9922.C6.o3.tm	Method	TBLASTX:Maize
Start	5927	End	11032
GI	none	Score	151
Exons	5927..6079, 5928..6113, 6182..6283, 6183..6311, 10675..10776, 10676..10801, 10834..11031, 10874..11032		

Seq. No.	14341	Seq. ID	OJ990427_24.9922.C6
Gene No.	30640	Strand	-
Start	16610	End	19601
Name	OJ990427_24.9922.C6.o3.np	Method	AAT/NAP
Start	16610	End	19601
GI	4584539	Score	178
Exons	16610..17308, 17380..17505, 17730..17831, 19540..19601		
GI Descrip.	(AL049608) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	14342	Seq. ID	OJ990427_24.9922.C7
Gene No.	30641	Strand	+
Start	1	End	1036
Name	OJ990427_24.9922.C7.o1.np	Method	AAT/NAP
Start	1	End	1036
GI	1184077	Score	411

Exons	1..48, 276..1036		
GI Descrip.	(U42445) Cf-2.2 [Lycopersicon pimpinellifolium]		
Seq. No.	14342	Seq. ID	OJ990427_24.9922.C7
Gene No.	30641	Strand	+
Start	1	End	1036
Name	OJ990427_24.9922.C7.o1.gs	Method	GENSCAN
Start	39	End	983
GI	none	Score	.57
Exons	39..107, 158..983		
Seq. No.	14342	Seq. ID	OJ990427_24.9922.C7
Gene No.	30641	Strand	+
Start	1	End	1036
Name	OJ990427_24.9922.C7.o1.tw	Method	TBLASTX:Wheat
Start	173	End	1030
GI	none	Score	52
Exons	173..244, 587..832, 589..840, 590..817, 722..832, 830..1030		
Seq. No.	14342	Seq. ID	OJ990427_24.9922.C7
Gene No.	30641	Strand	+
Start	1	End	1036
Name	OJ990427_24.9922.C7.o1.tc	Method	TBLASTX:Cress
Start	209	End	1031
GI	none	Score	43
Exons	209..244, 284..466, 284..475, 467..523, 589..705, 590..811, 592..777, 593..832, 593..835, 593..832, 593..832, 593..790, 593..901, 593..721, 593..835, 593..832, 593..832, 599..832, 641..1030, 650..835, 668..832, 676..777, 830..1030, 836..1030, 839..1030, 845..1030, 863..1030, 996..1031		
Seq. No.	14342	Seq. ID	OJ990427_24.9922.C7
Gene No.	30641	Strand	+
Start	1	End	1036
Name	OJ990427_24.9922.C7.o1.tm	Method	TBLASTX:Maize
Start	284	End	1030
GI	none	Score	99
Exons	284..475, 284..484, 284..478, 284..379, 545..634, 587..697, 587..832, 593..1030, 593..835, 593..832, 593..778, 601..840, 601..831, 604..837, 604..831, 617..832, 644..835, 649..840, 748..837, 830..1030, 863..1030, 949..990		
Seq. No.	14342	Seq. ID	OJ990427_24.9922.C7
Gene No.	30641	Strand	+
Start	1	End	1036
Name	OJ990427_24.9922.C7.o1.ts	Method	TBLASTX:Soybean
Start	284	End	1033
GI	none	Score	140
Exons	284..475, 284..475, 467..523, 467..523, 590..757, 592..714, 592..714, 593..832, 593..832, 593..832, 593..904, 593..832, 593..835, 593..832, 595..762, 638..835, 652..840, 748..840, 830..1030, 830..1033, 836..1030, 845..1030, 917..1030		
Seq. No.	14343	Seq. ID	OJ990427_24.9922.C8
Gene No.	30642	Strand	+
Start	1	End	453
Name	OJ990427_24.9922.C8.o1.np	Method	AAT/NAP

Start	1	End	453
GI	87765	Score	275
Exons	1..453		
GI Descrip.	hypothetical L1 protein (third intron of gene TS) - human gi|364964|prf||1510254A L1 repetitive element ORF [Homo sapiens]		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30643	Strand	+
Start	2114	End	4749
Name	OJ990427_27.9922.C1.o1.gs	Method	GENSCAN
Start	2114	End	4749
GI	none	Score	.51
Exons	2114..2204, 2286..2336, 4526..4749		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30644	Strand	-
Start	5423	End	6661
Name	OJ990427_27.9922.C1.o1.gp	Method	AAT/GAP
Start	5423	End	5937
GI	3762775	Score	885
Exons	5423..5937		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30644	Strand	-
Start	5423	End	6661
Name	OJ990427_27.9922.C1.o2.gs	Method	GENSCAN
Start	5566	End	6558
GI	none	Score	1
Exons	5566..6558		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30644	Strand	-
Start	5423	End	6661
Name	OJ990427_27.9922.C1.o1.np	Method	AAT/NAP
Start	5596	End	6558
GI	6092014	Score	333
Exons	5596..6558		
GI Descrip.	(AB026296) hsr203J homolog [Pisum sativum]		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30644	Strand	-
Start	5423	End	6661
Name	OJ990427_27.9922.C1.o2.gp	Method	AAT/GAP
Start	6351	End	6661
GI	none	Score	551
Exons	6351..6661		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30645	Strand	-
Start	8698	End	14845
Name	OJ990427_27.9922.C1.o1.ts	Method	TBLASTX:Soybean
Start	5633	End	6540
GI	none	Score	47
Exons	5633..5698, 5644..5868, 5771..5869, 5869..5973, 5929..6033, 5933..6034, 6005..6139, 6031..6138, 6154..6357, 6163..6351, 6367..6540		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30645	Strand	-
Start	8698	End	14845
Name	OJ990427_27.9922.C1.o1.tm	Method	TBLASTX:Maize
Start	5776	End	6145
GI	none	Score	98
Exons	5776..5868, 5777..5869, 5869..6024, 5933..6025, 6034..6144, 6041..6145		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30645	Strand	-
Start	8698	End	14845
Name	OJ990427_27.9922.C1.o1.tc	Method	TBLASTX:Cress
Start	5869	End	6285
GI	none	Score	134
Exons	5869..6039, 6046..6138, 6163..6285		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30645	Strand	-
Start	8698	End	14845
Name	OJ990427_27.9922.C1.o1.tw	Method	TBLASTX:Wheat
Start	6172	End	6477
GI	none	Score	116
Exons	6172..6363, 6187..6399, 6355..6477, 6376..6438, 6411..6476		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30645	Strand	-
Start	8698	End	14845
Name	OJ990427_27.9922.C1.o2.tm	Method	TBLASTX:Maize
Start	6277	End	6570
GI	none	Score	64
Exons	6277..6363, 6278..6319, 6292..6375, 6325..6375, 6358..6534, 6358..6570, 6407..6556		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30645	Strand	-
Start	8698	End	14845
Name	OJ990427_27.9922.C1.o2.ts	Method	TBLASTX:Soybean
Start	8680	End	9769
GI	none	Score	136
Exons	8680..8820, 8693..8818, 9201..9245, 9202..9246, 9315..9446, 9316..9447, 9666..9752, 9671..9769		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30645	Strand	-
Start	8698	End	14845
Name	OJ990427_27.9922.C1.o3.gs	Method	GENSCAN
Start	8698	End	14752
GI	none	Score	.8
Exons	8698..8891, 9320..9450, 11096..11150, 11370..11478, 11837..11911, 12417..12513, 12676..12759, 12796..12852, 13020..13080, 13364..13523, 13801..13893, 14399..14447, 14588..14688, 14731..14752		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30645	Strand	-
Start	8698	End	14845

Name	OJ990427_27.9922.C1.o5.tm	Method	TBLASTX:Maize
Start	8698	End	8818
GI	none	Score	114
Exons	8698..8811, 8698..8817, 8702..8818		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30645	Strand	-
Start	8698	End	14845
Name	OJ990427_27.9922.C1.o2.np	Method	AAT/NAP
Start	8710	End	13905
GI	5824481	Score	423
Exons	8710..8817, 9201..9244, 9320..9445, 9660..9745, 10337..10399, 10642..10754, 11370..11478, 11837..11911, 12417..12513, 12676..12737, 12816..12852, 13020..13080, 13388..13502, 13801..13905		
GI Descrip.	(Z74031) Similarity to Yeast D-lactate dehydrogenase (SW:DLD1_YEAST); cDNA EST EMBL:C12235 comes from this gene; cDNA EST EMBL:C12916 comes from this gene; cDNA EST EMBL:C10532 comes from this gene; cDNA EST EMBL:C10979 comes...		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30645	Strand	-
Start	8698	End	14845
Name	OJ990427_27.9922.C1.o3.tm	Method	TBLASTX:Maize
Start	9183	End	9752
GI	none	Score	63
Exons	9183..9245, 9201..9245, 9202..9246, 9203..9247, 9315..9452, 9315..9449, 9317..9454, 9666..9752, 9668..9745		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30645	Strand	-
Start	8698	End	14845
Name	OJ990427_27.9922.C1.o4.tm	Method	TBLASTX:Maize
Start	13408	End	14845
GI	none	Score	111
Exons	13408..13503, 13410..13505, 13410..13505, 13802..13894, 13803..13895, 13815..13895, 14387..14473, 14398..14436, 14588..14689, 14590..14688, 14769..14843, 14777..14845, 14777..14845		

Seq. No.	14344	Seq. ID	OJ990427_27.9922.C1
Gene No.	30645	Strand	-
Start	8698	End	14845
Name	OJ990427_27.9922.C1.o3.ts	Method	TBLASTX:Soybean
Start	13428	End	14691
GI	none	Score	136
Exons	13428..13466, 13461..13505, 13742..13894, 13801..13905, 13813..13896, 14387..14473, 14587..14691, 14588..14674		

Seq. No.	14345	Seq. ID	OJ990427_27.9922.C2
Gene No.	30646	Strand	+
Start	126	End	1089
Name	OJ990427_27.9922.C2.o1.gs	Method	GENSCAN
Start	126	End	1089
GI	none	Score	.8
Exons	126..184, 1026..1089		

Seq. No.	14345	Seq. ID	OJ990427_27.9922.C2
Gene No.	30647	Strand	-
Start	2737	End	5364
Name	OJ990427_27.9922.C2.o1.np	Method	AAT/NAP
Start	2201	End	5364
GI	5295950	Score	205
Exons	2201..2226, 2958..3119, 3392..3574, 3677..4193, 5344..5364		
GI Descrip.	(AB026295) EST AU066268(S5980) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14345	Seq. ID	OJ990427_27.9922.C2
Gene No.	30647	Strand	-
Start	2737	End	5364
Name	OJ990427_27.9922.C2.o2.gs	Method	GENSCAN
Start	2737	End	4935
GI	none	Score	.68
Exons	2737..3159, 3432..3587, 3699..4571, 4835..4935		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30648	Strand	+
Start	12805	End	27985
Name	OJ990427_27.9922.C3.o3.gs	Method	GENSCAN
Start	12805	End	27985
GI	none	Score	.75
Exons	12805..12922, 13008..13095, 14095..14221, 14978..15072, 15491..15582, 15754..15807, 16649..16701, 16900..16967, 17205..17280, 17587..17670, 18221..18369, 18803..18920, 19011..19127, 19378..19598, 20024..20113, 20260..20371, 20807..20932, 21007..21144, 21236..21286, 21366..21478, 22681..22746, 23010..23157, 23445..23546, 23923..23995, 24075..24241, 24334..24444, 27050..27620, 27945..27985		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30648	Strand	+
Start	12805	End	27985
Name	OJ990427_27.9922.C3.o2.np	Method	AAT/NAP
Start	14033	End	24438
GI	2501067	Score	1312
Exons	14033..14221, 14776..14859, 14978..15072, 15491..15582, 15754..15807, 16649..16701, 16900..16967, 17211..17280, 17587..17670, 18221..18369, 18803..18920, 19011..19127, 19378..19598, 20024..20113, 20260..20371, 20822..20954, 21002..21124, 21246..21293, 21373..21478, 23010..23268, 23445..23528, 23984..24241, 24334..24438		
GI Descrip.	VALYL-TRNA SYNTHETASE (VALINE--TRNA LIGASE) (VALRS) gi|1001391|dbj|BAA10881| (D64006) valyl-tRNA synthetase [Synechocystis sp.]		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30648	Strand	+
Start	12805	End	27985
Name	OJ990427_27.9922.C3.o1.gp	Method	AAT/GAP
Start	20260	End	21476
GI	LIB3432-058-P1-K1-C7	Score	871
Exons	20260..20371, 20822..20932, 21007..21144, 21236..21286, 21366..21476		
GI Descrip.	'4982399/gb|AAD36880.1|AE001819_3 2.0e-33 (AE001819) valyl-tRNA		

synthetase [Thermotoga maritima]'

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30649	Strand	-
Start	141	End	1010
Name	OJ990427_27.9922.C3.o1.gs	Method	GENSCAN
Start	141	End	1010
GI	none	Score	.81
Exons	141..258, 496..686, 945..1010		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30650	Strand	-
Start	2690	End	11652
Name	OJ990427_27.9922.C3.o2.gs	Method	GENSCAN
Start	2690	End	11652
GI	none	Score	.69
Exons	2690..2866, 3326..3667, 3745..3983, 5286..6448, 6821..7704, 7740..8609, 8860..9139, 9279..9426, 11009..11192, 11569..11652		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30650	Strand	-
Start	2690	End	11652
Name	OJ990427_27.9922.C3.o1.np	Method	AAT/NAP
Start	4769	End	8666
GI	6539553	Score	6380
Exons	4769..8666		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30651	Strand	-
Start	26457	End	26520
Name	OJ990427_27.9922.C3.o3.np	Method	AAT/NAP
Start	26457	End	26520
GI	2443320	Score	81
Exons	26457..26520		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o2.tw	Method	TBLASTX:Wheat
Start	4905	End	5380
GI	none	Score	126
Exons	4905..5018, 4905..5018, 4937..5020, 4940..5020, 4984..5022, 5020..5289, 5023..5289, 5030..5290, 5305..5379, 5309..5380		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o6.ts	Method	TBLASTX:Soybean
Start	5032	End	5373
GI	none	Score	97
Exons	5032..5241, 5053..5241, 5260..5373, 5267..5347		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o6.tm	Method	TBLASTX:Maize
Start	5236	End	5568
GI	none	Score	208
Exons	5236..5568, 5249..5560, 5251..5568		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o4.ts	Method	TBLASTX:Soybean
Start	5386	End	5731
GI	none	Score	104
Exons	5386..5730, 5531..5731		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o3.tw	Method	TBLASTX:Wheat
Start	5584	End	6129
GI	none	Score	35
Exons	5584..5790, 5614..5715, 5785..6129, 5809..5982		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o5.tm	Method	TBLASTX:Maize
Start	5665	End	6130
GI	none	Score	56
Exons	5665..6129, 5780..5878, 5812..5976, 5948..6130		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o1.ts	Method	TBLASTX:Soybean
Start	5800	End	6264
GI	5509260	Score	355
Exons	5800..6264		
GI Descrip.	-		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o1.tc	Method	TBLASTX:Cress
Start	5911	End	6171
GI	none	Score	259
Exons	5911..6171		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o1.tw	Method	TBLASTX:Wheat
Start	6184	End	6939
GI	none	Score	495
Exons	6184..6930, 6184..6417, 6201..6431, 6481..6939		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o3.ts	Method	TBLASTX:Soybean
Start	6589	End	6987
GI	none	Score	94
Exons	6589..6762, 6763..6987, 6809..6979		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o7.tm	Method	TBLASTX:Maize
Start	6589	End	7083
GI	none	Score	86
Exons	6589..6756, 6775..7083, 6809..7000		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o5.tw	Method	TBLASTX:Wheat
Start	6940	End	7113
GI	none	Score	158
Exons	6940..7113, 6940..7104		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o2.tm	Method	TBLASTX:Maize
Start	7404	End	7719
GI	none	Score	387
Exons	7404..7571, 7405..7719, 7406..7699		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o4.tm	Method	TBLASTX:Maize
Start	8224	End	8537
GI	none	Score	267
Exons	8224..8529, 8226..8537		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o4.tw	Method	TBLASTX:Wheat
Start	8286	End	8672
GI	none	Score	226
Exons	8286..8672, 8287..8661		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o2.tc	Method	TBLASTX:Cress
Start	13987	End	23157
GI	none	Score	119
Exons	13987..14250, 14096..14221, 14773..14862, 14978..15073, 15486..15584, 15491..15574, 17221..17280, 18224..18361, 19380..19460, 19381..19536, 19528..19614, 20022..20072,		

20067..20123, 20261..20380, 20261..20350, 20263..20364,
20822..20920, 20846..20926, 21010..21096, 22916..22975,
23056..23157, 23070..23156

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o5.ts	Method	TBLASTX:Soybean
Start	18869	End	19455
GI	none	Score	89
Exons	18869..18922, 18870..18923, 18876..18923, 19010..19126, 19011..19130, 19011..19127, 19375..19455, 19389..19454		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o3.tm	Method	TBLASTX:Maize
Start	19016	End	20319
GI	none	Score	190
Exons	19016..19126, 19017..19130, 19017..19127, 19373..19597, 19375..19596, 19391..19612, 20000..20119, 20022..20123, 20260..20319, 20261..20317		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o8.tm	Method	TBLASTX:Maize
Start	20813	End	21161
GI	none	Score	187
Exons	20813..20932, 20814..20933, 20819..20932, 20821..20934, 20821..20937, 20977..21081, 21004..21057, 21006..21083, 21043..21144, 21048..21161, 21049..21144		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o11.tm	Method	TBLASTX:Maize
Start	21384	End	23151
GI	none	Score	93
Exons	21384..21443, 21385..21471, 21386..21466, 22999..23151, 23010..23147		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o10.tm	Method	TBLASTX:Maize
Start	22053	End	22465
GI	none	Score	51
Exons	22053..22106, 22053..22112, 22189..22326, 22207..22326, 22326..22376, 22390..22449, 22391..22465		

Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o12.tm	Method	TBLASTX:Maize
Start	22702	End	22936
GI	none	Score	86

Exons	22702..22935, 22703..22936		
Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o2.ts	Method	TBLASTX:Soybean
Start	22999	End	23498
GI	none	Score	55
Exons	22999..23049, 23010..23051, 23044..23163, 23046..23162, 23245..23355, 23445..23498, 23447..23497		
Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o9.tm	Method	TBLASTX:Maize
Start	23245	End	23996
GI	none	Score	142
Exons	23245..23355, 23253..23357, 23434..23532, 23437..23532, 23438..23545, 23444..23545, 23445..23546, 23893..23994, 23904..23996		
Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	24073	End	24498
GI	none	Score	140
Exons	24073..24240, 24074..24241, 24077..24232, 24334..24498, 24334..24465, 24336..24494		
Seq. No.	14346	Seq. ID	OJ990427_27.9922.C3
Gene No.	30652	Strand	-
Start	32498	End	33832
Name	OJ990427_27.9922.C3.o4.gs	Method	GENSCAN
Start	32498	End	33832
GI	none	Score	.84
Exons	32498..32608, 32681..32810, 33765..33832		
Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30653	Strand	+
Start	1886	End	15174
Name	OJ990427_27.9922.C4.o2.gs	Method	GENSCAN
Start	1886	End	15174
GI	none	Score	.76
Exons	1886..2009, 3047..3153, 3467..3695, 3969..4116, 4222..4379, 4458..4661, 5309..5424, 5969..6067, 6247..6356, 6581..6640, 7392..7470, 7548..7694, 7770..7850, 7960..8079, 8565..8687, 9367..9444, 9951..10019, 10102..10212, 10542..10597, 10682..10859, 11487..11552, 11661..11744, 12623..12739, 13738..13812, 13897..13980, 15064..15174		
Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30653	Strand	+
Start	1886	End	15174
Name	OJ990427_27.9922.C4.o1.np	Method	AAT/NAP
Start	2973	End	14161
GI	6671947	Score	3829

Exons	2973..3029, 3476..3542, 3969..4116, 4222..4379, 4458..4723, 4805..5023, 5120..5228, 5309..5424, 5969..6067, 6247..6356, 6566..6640, 7392..7470, 7548..7694, 7770..7850, 7960..8079, 8565..8687, 9367..9444, 9571..9659, 9745..9853, 9951..10019, 10102..10212, 10542..10597, 10682..10859, 10956..11057, 11145..11216, 11335..11400, 11487..11552, 11661..11744, 12623..12739, 13738..13815, 13897..13980, 14123..14161		
GI Descrip.	(AC016795) putative ubiquitin carboxyl-terminal hydrolase [Arabidopsis thaliana]		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30653	Strand	+
Start	1886	End	15174
Name	OJ990427_27.9922.C4.o1.gp	Method	AAT/GAP
Start	9560	End	10587
GI	none	Score	653
Exons	9560..9659, 9745..9853, 9951..10019, 10102..10212, 10542..10587		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30653	Strand	+
Start	1886	End	15174
Name	OJ990427_27.9922.C4.o2.gp	Method	AAT/GAP
Start	11145	End	14354
GI	21151_1.R1084	Score	1449
Exons	11145..11216, 11335..11400, 11487..11552, 11661..11744, 12623..12739, 13738..13812, 13897..13980, 14123..14354		
GI Descrip.	'6014652/gb|AAF01440.1|AF187961_1 1.0e-16 (AF187961) ubiquitin carboxyl-terminal hydrolase [Schizosaccharomyces pombe]'		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30654	Strand	+
Start	26189	End	26541
Name	OJ990427_27.9922.C4.o4.gp	Method	AAT/GAP
Start	26189	End	26541
GI	none	Score	642
Exons	26189..26541		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30655	Strand	+
Start	34245	End	36398
Name	OJ990427_27.9922.C4.o5.gs	Method	GENSCAN
Start	34245	End	36398
GI	none	Score	.64
Exons	34245..34284, 34504..34890, 35032..35237, 35253..35411, 36276..36398		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30656	Strand	+
Start	36477	End	36728
Name	OJ990427_27.9922.C4.o7.gp	Method	AAT/GAP
Start	36477	End	36728
GI	none	Score	457
Exons	36477..36728		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30657	Strand	-
Start	23	End	1354

Name	OJ990427_27.9922.C4.o1.gs	Method	GENSCAN
Start	23	End	1354
GI	none	Score	.68
Exons	23..718, 1352..1354		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30658	Strand	-
Start	16417	End	18604
Name	OJ990427_27.9922.C4.o3.gp	Method	AAT/GAP
Start	16249	End	16592
GI	286770	Score	651
Exons	16249..16592		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30658	Strand	-
Start	16417	End	18604
Name	OJ990427_27.9922.C4.o3.gs	Method	GENSCAN
Start	16417	End	18604
GI	none	Score	.52
Exons	16417..16559, 16702..18604		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30658	Strand	-
Start	16417	End	18604
Name	OJ990427_27.9922.C4.o2.np	Method	AAT/NAP
Start	16652	End	18049
GI	2244839	Score	1026
Exons	16652..18049		
GI Descrip.	(Z97337) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o9.tm	Method	TBLASTX:Maize
Start	3016	End	4276
GI	none	Score	72
Exons	3016..3054, 3114..3230, 3961..4116, 3962..4117, 3962..4135, 3996..4121, 4220..4276, 4223..4276		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o2.ts	Method	TBLASTX:Soybean
Start	3968	End	4519
GI	none	Score	184
Exons	3968..4117, 3979..4128, 3988..4128, 4222..4377, 4223..4378, 4448..4519, 4456..4515		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o8.tc	Method	TBLASTX:Cress
Start	3973	End	4294
GI	none	Score	175
Exons	3973..4128, 3974..4117, 4222..4293, 4223..4294		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4

Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o1.tm	Method	TBLASTX:Maize
Start	4480	End	7600
GI	none	Score	52
Exons	4480..4515, 4480..4521, 4484..4537, 4495..4593, 4507..4722, 4514..4723, 4517..4723, 4518..4724, 4627..4725, 4799..5026, 4802..5023, 4803..5024, 4804..5025, 4804..5040, 5122..5226, 5122..5226, 5123..5227, 5299..5424, 5307..5450, 5308..5424, 5965..6066, 5966..6070, 5968..6066, 6223..6354, 6223..6354, 6245..6385, 6245..6355, 6558..6641, 6563..6625, 6565..6663, 7390..7470, 7392..7472, 7393..7473, 7545..7598, 7547..7600		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o1.tc	Method	TBLASTX:Cress
Start	4523	End	4975
GI	none	Score	318
Exons	4523..4723, 4526..4723, 4627..4725, 4633..4731, 4787..4837, 4802..4975, 4804..4974, 4862..4975		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o3.ts	Method	TBLASTX:Soybean
Start	4636	End	4980
GI	none	Score	160
Exons	4636..4731, 4637..4723, 4639..4725, 4802..4978, 4804..4980, 4804..4974		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o6.tc	Method	TBLASTX:Cress
Start	4976	End	6055
GI	none	Score	72
Exons	4976..5023, 4978..5022, 5117..5227, 5117..5203, 5119..5226, 5307..5450, 5308..5424, 5315..5428, 5966..6055, 5968..6054		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o5.ts	Method	TBLASTX:Soybean
Start	4981	End	7699
GI	none	Score	62
Exons	4981..5022, 4982..5023, 5116..5226, 5117..5227, 5119..5226, 5307..5450, 5308..5424, 5312..5428, 5965..6063, 5966..6070, 5968..6063, 6223..6354, 6223..6354, 6251..6355, 6558..6644, 6563..6622, 6603..6650, 7393..7473, 7395..7469, 7545..7694, 7545..7682, 7547..7699		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o10.tc	Method	TBLASTX:Cress
Start	6223	End	6650

GI	none	Score	187
Exons	6223..6354, 6223..6354, 6251..6355, 6563..6616, 6564..6644, 6603..6650		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o2.tc	Method	TBLASTX:Cress
Start	7390	End	8081
GI	none	Score	128
Exons	7390..7470, 7393..7473, 7395..7472, 7545..7583, 7572..7697, 7572..7688, 7574..7699, 7761..7853, 7954..8079, 7959..8081		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o7.tm	Method	TBLASTX:Maize
Start	7602	End	9423
GI	none	Score	154
Exons	7602..7697, 7603..7710, 7761..7853, 7950..8081, 7954..8079, 8553..8732, 8562..8663, 8564..8689, 9367..9423		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o1.ts	Method	TBLASTX:Soybean
Start	7821	End	14164
GI	none	Score	51
Exons	7821..7853, 7950..8069, 7954..8043, 8041..8079, 8552..8740, 8558..8677, 8562..8732, 8562..8747, 9367..9429, 9544..9663, 9590..9646, 9734..9853, 9747..9854, 9944..10018, 9945..10022, 10099..10149, 10101..10139, 10156..10260, 10170..10217, 10532..10597, 10539..10598, 10667..10855, 10674..10859, 10698..10862, 10699..10860, 10935..11063, 10953..11063, 11142..11234, 11144..11233, 11323..11403, 11332..11400, 11333..11401, 11484..11555, 11489..11551, 11500..11556, 11500..11556, 11661..11732, 11663..11731, 11670..11741, 11672..11734, 12622..12729, 12623..12739, 13737..13796, 13738..13812, 13897..13980, 13908..13958, 14120..14164		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o7.tc	Method	TBLASTX:Cress
Start	8582	End	10119
GI	none	Score	178
Exons	8582..8728, 8583..8732, 9367..9435, 9571..9663, 9584..9655, 9744..9854, 9746..9853, 9950..10006, 9951..10022, 10099..10119		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o2.tm	Method	TBLASTX:Maize
Start	9425	End	14490
GI	none	Score	44
Exons	9425..9445, 9570..9662, 9571..9663, 9571..9663, 9730..9828, 9734..9853, 9743..9853, 9744..9854, 9745..9855, 9945..10022,		

9945..10019, 9950..10021, 10081..10215, 10099..10245,
10101..10217, 10532..10597, 10539..10598, 10540..10602,
10540..10602, 10670..10858, 10671..10859, 10686..10862,
10693..10860, 10933..11058, 10953..11060, 10953..11060,
11139..11210, 11142..11234, 11143..11217, 11144..11218,
11323..11403, 11332..11403, 11333..11413, 11466..11552,
11484..11555, 11485..11556, 11491..11553, 11492..11554,
11652..11744, 11661..11753, 11683..11781, 12622..12738,
12623..12739, 12623..12739, 13728..13808, 13737..13808,
13738..13812, 13897..13980, 13899..13979, 14120..14164,
14122..14238, 14176..14211, 14257..14289, 14258..14290,
14361..14411, 14362..14394, 14392..14433, 14463..14489,
14467..14490

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o3.tw	Method	TBLASTX:Wheat
Start	9778	End	10748
GI	none	Score	65

Exons 9778..9825, 9785..9853, 9786..9854, 9945..10022, 9945..10019,
9946..10032, 9950..10021, 10099..10260, 10099..10212,
10101..10247, 10539..10598, 10541..10597, 10667..10699,
10683..10748, 10686..10748

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o3.tc	Method	TBLASTX:Cress
Start	10539	End	14164
GI	none	Score	71

Exons 10539..10613, 10541..10612, 10695..10859, 10698..10859,
10711..10860, 10935..11063, 10953..11042, 11142..11234,
11156..11233, 11323..11415, 11484..11555, 11486..11551,
11661..11732, 11663..11731, 12622..12732, 12623..12739,
13737..13796, 13738..13812, 13897..13980, 13908..13958,
14120..14164

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o8.tm	Method	TBLASTX:Maize
Start	16643	End	16910
GI	none	Score	73

Exons 16643..16906, 16650..16727, 16652..16903, 16764..16910

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o4.tc	Method	TBLASTX:Cress
Start	16649	End	17183
GI	none	Score	41

Exons 16649..17182, 16650..16724, 16752..17183

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417

Name	OJ990427_27.9922.C4.o7.ts	Method	TBLASTX:Soybean
Start	16649	End	16877
GI	none	Score	151
Exons	16649..16870, 16650..16877		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o4.ts	Method	TBLASTX:Soybean
Start	16877	End	17410
GI	none	Score	389
Exons	16877..17410		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o4.tm	Method	TBLASTX:Maize
Start	16916	End	18116
GI	none	Score	55
Exons	16916..17782, 17037..17234, 17288..17455, 17292..17642, 17438..17728, 17481..17651, 17489..17878, 17681..17965, 17771..17956, 17870..17980, 17888..17974, 17990..18115, 18042..18116		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o5.tc	Method	TBLASTX:Cress
Start	17317	End	18133
GI	none	Score	44
Exons	17317..17361, 17369..17479, 17388..17474, 17483..17974, 17499..17657, 17531..17647, 17768..17902, 17780..17971, 17981..18133		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o2.tw	Method	TBLASTX:Wheat
Start	17343	End	17938
GI	none	Score	212
Exons	17343..17783, 17345..17818, 17708..17938		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o6.ts	Method	TBLASTX:Soybean
Start	17435	End	17938
GI	none	Score	191
Exons	17435..17704, 17436..17657, 17774..17938		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o3.np	Method	AAT/NAP
Start	19803	End	24636
GI	3135493	Score	1437
Exons	19803..20246, 20527..20651, 20762..20882, 20958..21138,		

21236..22138, 22392..22640, 22723..23177, 23778..23870, 24387..24636

GI Descrip. (AF060248) unknown [Arabidopsis thaliana]

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o4.gs	Method	GENSCAN
Start	19812	End	33975
GI	none	Score	.74

Exons 19812..20246, 20527..20655, 20958..21109, 21204..22138, 22392..22640, 22723..23180, 23778..23870, 24387..25016, 26914..26945, 27659..27827, 28324..28369, 28656..28738, 29380..29459, 30305..30413, 30652..30720, 30859..30909, 31297..31420, 31602..31657, 31775..31839, 32423..32498, 33035..33093, 33260..33350, 33475..33975

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o3.tm	Method	TBLASTX:Maize
Start	19830	End	20169
GI	none	Score	241

Exons 19830..20168, 19839..20159, 19900..20169

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o1.tw	Method	TBLASTX:Wheat
Start	19984	End	20795
GI	none	Score	348

Exons 19984..20253, 19984..20247, 19986..20252, 20522..20656, 20524..20658, 20527..20658, 20748..20795, 20761..20793

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o6.tm	Method	TBLASTX:Maize
Start	20778	End	21262
GI	none	Score	109

Exons 20778..20882, 20778..20882, 20779..20883, 20952..21119, 20956..21111, 21206..21262, 21208..21261

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o5.np	Method	AAT/NAP
Start	20816	End	24636
GI	3135493	Score	933

Exons 20816..20882, 20958..21138, 21236..22138, 22392..22640, 22723..23177, 23778..23870, 24387..24636

GI Descrip. (AF060248) unknown [Arabidopsis thaliana]

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o9.ts	Method	TBLASTX:Soybean

Start	21208	End	21777
GI	none	Score	122
Exons	21208..21552, 21236..21559, 21700..21777		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o13.tm	Method	TBLASTX:Maize
Start	21673	End	21914
GI	none	Score	158
Exons	21673..21867, 21701..21850, 21849..21914, 21850..21897		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o11.tm	Method	TBLASTX:Maize
Start	23778	End	24615
GI	none	Score	116
Exons	23778..23867, 23779..23871, 24379..24507, 24384..24515, 24516..24602, 24516..24536, 24534..24614, 24535..24615		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o6.np	Method	AAT/NAP
Start	28324	End	39417
GI	4455131	Score	307
Exons	28324..28369, 28656..28738, 29380..29459, 30305..30413, 30646..30720, 30859..30909, 31044..31169, 31298..31411, 38982..39417		
GI Descrip.	(AF129433) histone deacetylase HDA2 [Drosophila melanogaster]		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o5.gp	Method	AAT/GAP
Start	30366	End	31373
GI	LIB3431-063-P1-K1-F4	Score	592
Exons	30366..30413, 30652..30720, 30859..30909, 31044..31169, 31297..31373		
GI Descrip.	'5911907/emb|CAB55935.1| 1.0e-31 (AL117455) hypothetical protein [Homo sapiens]'		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o12.tm	Method	TBLASTX:Maize
Start	31275	End	31659
GI	none	Score	176
Exons	31275..31430, 31295..31420, 31591..31659, 31598..31657		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o10.tm	Method	TBLASTX:Maize
Start	33309	End	33948
GI	none	Score	56

Exons	33309..33350, 33310..33351, 33478..33642, 33479..33625, 33480..33638, 33480..33650, 33481..33642, 33659..33754, 33749..33883, 33750..33905, 33757..33888, 33889..33948		
Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o6.gp	Method	AAT/GAP
Start	33669	End	34855
GI	2442639	Score	742
Exons	33669..33993, 34773..34855		
Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o5.tm	Method	TBLASTX:Maize
Start	36679	End	38156
GI	none	Score	46
Exons	36679..36714, 36680..36715, 36741..36908, 36748..36909, 37001..37078, 37009..37077, 37010..37078, 37012..37080, 37182..37268, 37184..37270, 37186..37269, 37384..37461, 37388..37465, 37388..37465, 37592..37693, 37593..37694, 37597..37698, 37598..37699, 38088..38156, 38106..38153		
Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o6.gs	Method	GENSCAN
Start	36741	End	38911
GI	none	Score	.92
Exons	36741..36908, 37012..37077, 37185..37265, 37387..37464, 37610..37696, 38112..38208, 38251..38324, 38672..38760, 38863..38911		
Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o7.np	Method	AAT/NAP
Start	36744	End	39254
GI	6006872	Score	581
Exons	36744..36908, 37012..37077, 37185..37265, 37387..37464, 37610..37696, 38112..38154, 38251..38324, 38672..38760, 38863..38911, 39075..39254		
GI Descrip.	(AC009540) s-syntaxin-like protein [Arabidopsis thaliana]		
Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o9.tc	Method	TBLASTX:Cress
Start	36744	End	37693
GI	none	Score	63
Exons	36744..36908, 36994..37077, 37182..37268, 37384..37461, 37589..37693, 37590..37691		
Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417

Name	OJ990427_27.9922.C4.o8.ts	Method	TBLASTX:Soybean
Start	36819	End	37461
GI	none	Score	68
Exons	36819..36908, 36820..36879, 37009..37077, 37182..37268, 37384..37461		

Seq. No.	14347	Seq. ID	OJ990427_27.9922.C4
Gene No.	30659	Strand	-
Start	19812	End	39417
Name	OJ990427_27.9922.C4.o8.gp	Method	AAT/GAP
Start	38109	End	38928
GI	12975_1.R1084	Score	406
Exons	38109..38154, 38251..38324, 38672..38760, 38863..38928		
GI Descrip.	'6006872/gb|AAF00648.1|AC009540_25 7.0e-31 (AC009540) s-syntaxin-like protein [Arabidopsis thaliana]'		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30660	Strand	+
Start	1	End	170
Name	OJ990427_26.9922.C1.o1.gp	Method	AAT/GAP
Start	1	End	170
GI	2669_1.R1084	Score	283
Exons	1..170		
GI Descrip.	'3914470/sp|Q40070|PSBR_HORVU 8.0e-26 PHOTOSYSTEM II 10 KD POLYPEPTIDE PRECURSOR >gi_1321868_emb_CAA66373_ (X97771) 10kD PSII protein [Hordeum vulgare]'		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30661	Strand	+
Start	202	End	1143
Name	OJ990427_26.9922.C1.o2.gp	Method	AAT/GAP
Start	202	End	1143
GI	688_1.R1084	Score	1842
Exons	202..1143		
GI Descrip.	'226661/prf||1603356CM 6.0e-54 trnA intron ORF 109 [Oryza sativa]'		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30662	Strand	-
Start	1789	End	2589
Name	OJ990427_26.9922.C1.o2.tm	Method	TBLASTX:Maize
Start	1	End	164
GI	none	Score	273
Exons	1..150, 2..163, 3..152, 3..164		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30662	Strand	-
Start	1789	End	2589
Name	OJ990427_26.9922.C1.o5.tc	Method	TBLASTX:Cress
Start	1	End	152
GI	none	Score	202
Exons	1..150, 3..152, 3..152		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30662	Strand	-
Start	1789	End	2589
Name	OJ990427_26.9922.C1.o3.ts	Method	TBLASTX:Soybean

Start	1	End	372
GI	none	Score	54
Exons	1..27, 2..52, 52..114, 63..116, 64..114, 65..115, 117..209, 127..201, 129..206, 198..251, 199..252, 212..265, 248..277, 256..372, 284..340, 291..371		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30662	Strand	-
Start	1789	End	2589
Name	OJ990427_26.9922.C1.o3.tc	Method	TBLASTX:Cress
Start	164	End	525
GI	none	Score	161
Exons	164..289, 164..289, 284..340, 291..332, 291..428, 292..372, 375..476, 376..489, 391..489, 392..502, 401..514, 486..518, 490..519, 490..525		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30662	Strand	-
Start	1789	End	2589
Name	OJ990427_26.9922.C1.o1.ts	Method	TBLASTX:Soybean
Start	624	End	1260
GI	none	Score	63
Exons	624..710, 624..710, 625..711, 626..754, 696..902, 706..894, 710..901, 871..1017, 887..1021, 891..971, 892..1014, 896..1024, 1000..1260, 1016..1258		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30662	Strand	-
Start	1789	End	2589
Name	OJ990427_26.9922.C1.o2.tc	Method	TBLASTX:Cress
Start	636	End	1010
GI	none	Score	122
Exons	636..710, 637..711, 696..899, 706..900, 707..901, 897..971, 897..1010, 898..1008		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30662	Strand	-
Start	1789	End	2589
Name	OJ990427_26.9922.C1.o1.tc	Method	TBLASTX:Cress
Start	1023	End	1580
GI	none	Score	248
Exons	1023..1196, 1024..1170, 1025..1204, 1153..1485, 1193..1459, 1193..1516, 1195..1464, 1460..1549, 1461..1550, 1463..1552, 1551..1580		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30662	Strand	-
Start	1789	End	2589
Name	OJ990427_26.9922.C1.o2.ts	Method	TBLASTX:Soybean
Start	1599	End	1843
GI	none	Score	67
Exons	1599..1658, 1599..1658, 1600..1659, 1600..1659, 1666..1722, 1668..1721, 1706..1843, 1711..1842, 1712..1843		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30662	Strand	-
Start	1789	End	2589

Name	OJ990427_26.9922.C1.o3.gp	Method	AAT/GAP
Start	1789	End	2258
GI	uC-osf1cyp097b05b1	Score	907
Exons	1789..2258		
GI Descrip.	'140503/sp|P12173|YCTI_ORYSA 3.0e-39 HYPOTHETICAL 14 KD PROTEIN IN TRNI INTRON (ORF 133) >gi_82518_pir__JQ0279 hypothetical 14.5K protein (trnI intron) - rice chloroplast >gi_12041_emb_CAA33945_ (X15901) ORF133; ORF within trnI intron [Oryza sativa] >gi_12061_emb_CAA33915_ (X15901) ORF133; ORF within trnI intron [Oryza sativa] >gi_226660_prf__1603356CL trnI intron ORF 133 [Oryza'		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30662	Strand	-
Start	1789	End	2589
Name	OJ990427_26.9922.C1.o1.tm	Method	TBLASTX:Maize
Start	2055	End	2566
GI	none	Score	415
Exons	2055..2327, 2055..2327, 2057..2356, 2285..2365, 2302..2382, 2306..2368, 2370..2564, 2375..2566, 2375..2566		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30662	Strand	-
Start	1789	End	2589
Name	OJ990427_26.9922.C1.o4.tc	Method	TBLASTX:Cress
Start	2221	End	2569
GI	none	Score	130
Exons	2221..2298, 2222..2308, 2223..2306, 2286..2315, 2301..2345, 2306..2347, 2317..2370, 2321..2368, 2399..2470, 2400..2486, 2474..2569, 2475..2567		

Seq. No.	14348	Seq. ID	OJ990427_26.9922.C1
Gene No.	30662	Strand	-
Start	1789	End	2589
Name	OJ990427_26.9922.C1.o4.ts	Method	TBLASTX:Soybean
Start	2254	End	2589
GI	none	Score	46
Exons	2254..2298, 2255..2293, 2256..2300, 2303..2338, 2304..2339, 2417..2470, 2421..2486, 2421..2483, 2474..2569, 2476..2577, 2476..2568, 2569..2589		

Seq. No.	14349	Seq. ID	OJ990427_26.9922.C2
Gene No.	30663	Strand	-
Start	1	End	147
Name	OJ990427_26.9922.C2.o1.gp	Method	AAT/GAP
Start	1	End	147
GI	LIB3432-021-P1-K1-A3	Score	220
Exons	1..147		
GI Descrip.	'11957/emb|X15901|CHOSXX 1.0e-52 Rice complete chloroplast genome'		

Seq. No.	14349	Seq. ID	OJ990427_26.9922.C2
Gene No.	30664	Strand	-
Start	221	End	350
Name	OJ990427_26.9922.C2.o1.tm	Method	TBLASTX:Maize
Start	1	End	297
GI	none	Score	77

Exons	1..72, 3..56, 20..217, 48..221, 49..225, 210..281, 214..297, 215..262, 255..296		
Seq. No.	14349	Seq. ID	OJ990427_26.9922.C2
Gene No.	30664	Strand	-
Start	221	End	350
Name	OJ990427_26.9922.C2.o1.tc	Method	TBLASTX:Cress
Start	48	End	350
GI	none	Score	135
Exons	48..209, 75..221, 100..219, 211..258, 255..326, 324..350		
Seq. No.	14349	Seq. ID	OJ990427_26.9922.C2
Gene No.	30664	Strand	-
Start	221	End	350
Name	OJ990427_26.9922.C2.o1.tw	Method	TBLASTX:Wheat
Start	60	End	258
GI	none	Score	146
Exons	60..221, 66..209, 100..219, 210..257, 211..258		
Seq. No.	14349	Seq. ID	OJ990427_26.9922.C2
Gene No.	30664	Strand	-
Start	221	End	350
Name	OJ990427_26.9922.C2.o2.gp	Method	AAT/GAP
Start	221	End	332
GI	1036999	Score	186
Exons	221..332		
GI Descrip.	11957/emb|X15901|CHOSXX 2.0e-52 Rice complete chloroplast genome		
Seq. No.	14350	Seq. ID	OJ990427_26.9922.C3
Gene No.	30665	Strand	+
Start	1	End	327
Name	OJ990427_26.9922.C3.o1.gp	Method	AAT/GAP
Start	1	End	160
GI	2231_2.R1084	Score	305
Exons	1..160		
GI Descrip.	'11957/emb|X15901|CHOSXX 1.0e-145 Rice complete chloroplast genome'		
Seq. No.	14350	Seq. ID	OJ990427_26.9922.C3
Gene No.	30665	Strand	+
Start	1	End	327
Name	OJ990427_26.9922.C3.o1.tc	Method	TBLASTX:Cress
Start	1	End	307
GI	none	Score	55
Exons	1..66, 1..66, 2..67, 33..305, 34..303, 53..307, 68..307		
Seq. No.	14350	Seq. ID	OJ990427_26.9922.C3
Gene No.	30665	Strand	+
Start	1	End	327
Name	OJ990427_26.9922.C3.o2.tw	Method	TBLASTX:Wheat
Start	1	End	163
GI	none	Score	48
Exons	1..66, 1..66, 2..67, 2..70, 33..161, 33..161, 49..162, 68..163		
Seq. No.	14350	Seq. ID	OJ990427_26.9922.C3
Gene No.	30665	Strand	+
Start	1	End	327

Name	OJ990427_26.9922.C3.o1.ts	Method	TBLASTX:Soybean
Start	1	End	327
GI	none	Score	103
Exons	1..66, 2..67, 2..67, 3..68, 31..327, 33..323, 64..327		

Seq. No.	14350	Seq. ID	OJ990427_26.9922.C3
Gene No.	30665	Strand	+
Start	1	End	327
Name	OJ990427_26.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	1	End	264
GI	none	Score	105
Exons	1..66, 1..66, 2..67, 2..70, 33..263, 34..264		

Seq. No.	14350	Seq. ID	OJ990427_26.9922.C3
Gene No.	30666	Strand	
Start	325	End	498
Name	OJ990427_26.9922.C3.o1.tw	Method	TBLASTX:Wheat
Start	325	End	498
GI	none	Score	269
Exons	325..498, 327..497		

Seq. No.	14351	Seq. ID	OJ990427_26.9922.C4
Gene No.	30667	Strand	+
Start	149	End	354
Name	OJ990427_26.9922.C4.o1.ts	Method	TBLASTX:Soybean
Start	37	End	354
GI	none	Score	297
Exons	37..354, 39..353, 179..283		

Seq. No.	14351	Seq. ID	OJ990427_26.9922.C4
Gene No.	30667	Strand	+
Start	149	End	354
Name	OJ990427_26.9922.C4.o1.tc	Method	TBLASTX:Cress
Start	93	End	354
GI	none	Score	160
Exons	93..350, 93..353, 94..354		

Seq. No.	14351	Seq. ID	OJ990427_26.9922.C4
Gene No.	30667	Strand	+
Start	149	End	354
Name	OJ990427_26.9922.C4.o1.gp	Method	AAT/GAP
Start	149	End	354
GI	LIB3431-040-P1-K2-C1	Score	361
Exons	149..354		
GI Descrip.	'114521/sp|P12084|ATPA_ORYSA 6.0e-53 ATP SYNTHASE ALPHA CHAIN >gi_67827_pir__PWRZA H+-transporting ATP synthase (EC 3.6.1.34) alpha chain - rice chloroplast >gi_11979_emb_CAA33993_ (X15901) ATPase alpha subunit [Oryza sativa] >gi_226696_prf__1603356X ATPase alpha [Oryza sativa]'		

Seq. No.	14352	Seq. ID	OJ990427_26.9922.C5
Gene No.	30668	Strand	+
Start	1	End	124
Name	OJ990427_26.9922.C5.o1.gp	Method	AAT/GAP
Start	1	End	124
GI	24570_1.R1084	Score	244
Exons	1..124		

GI Descrip. '131251/sp|P12094|PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir__FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_ (X15901) PSII 32kDa protein [Oryza sativa] >gi_343212 (M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf__1503143A psbA gene [Oryza sativa] >gi_226406_prf__15'

Seq. No.	14352	Seq. ID	OJ990427_26.9922.C5
Gene No.	30669	Strand	+
Start	488	End	851
Name	OJ990427_26.9922.C5.o2.gp	Method	AAT/GAP
Start	488	End	851
GI	5455469	Score	666
Exons	488..851		

GI Descrip. 131251/sp|P12094|PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir__FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_ (X15901) PSII 32kDa protein [Oryza sativa] >gi_343212 (M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf__1503143A psbA gene [Oryza sativa] >gi_226406_prf__15

Seq. No.	14352	Seq. ID	OJ990427_26.9922.C5
Gene No.	30670	Strand	+
Start	878	End	1227
Name	OJ990427_26.9922.C5.o2.tc	Method	TBLASTX:Cress
Start	1	End	358
GI	none	Score	238
Exons	1..129, 2..148, 125..355, 131..358		

Seq. No.	14352	Seq. ID	OJ990427_26.9922.C5
Gene No.	30670	Strand	+
Start	878	End	1227
Name	OJ990427_26.9922.C5.o2.tm	Method	TBLASTX:Maize
Start	1	End	163
GI	none	Score	299
Exons	1..162, 2..163		

Seq. No.	14352	Seq. ID	OJ990427_26.9922.C5
Gene No.	30670	Strand	+
Start	878	End	1227
Name	OJ990427_26.9922.C5.o2.ts	Method	TBLASTX:Soybean
Start	47	End	463
GI	none	Score	219
Exons	47..463, 206..391		

Seq. No.	14352	Seq. ID	OJ990427_26.9922.C5
Gene No.	30670	Strand	+
Start	878	End	1227
Name	OJ990427_26.9922.C5.o1.tw	Method	TBLASTX:Wheat
Start	290	End	640
GI	none	Score	113
Exons	290..463, 524..640		

Seq. No.	14352	Seq. ID	OJ990427_26.9922.C5
Gene No.	30670	Strand	+

Start	878	End	1227
Name	OJ990427_26.9922.C5.o1.tc	Method	TBLASTX:Cress
Start	446	End	814
GI	none	Score	579
Exons	446..814, 446..796		

Seq. No.	14352	Seq. ID	OJ990427_26.9922.C5
Gene No.	30670	Strand	+
Start	878	End	1227
Name	OJ990427_26.9922.C5.o3.gp	Method	AAT/GAP
Start	878	End	1227
GI	3073_1.R1084	Score	619
Exons	878..1227		
GI Descrip.	'133936/sp|P12146|RR3_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir__R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934_ (X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf__1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	14352	Seq. ID	OJ990427_26.9922.C5
Gene No.	30670	Strand	+
Start	878	End	1227
Name	OJ990427_26.9922.C5.o1.tm	Method	TBLASTX:Maize
Start	891	End	1227
GI	none	Score	392
Exons	891..1157, 910..1194, 919..1158, 1144..1227, 1160..1225		

Seq. No.	14352	Seq. ID	OJ990427_26.9922.C5
Gene No.	30670	Strand	+
Start	878	End	1227
Name	OJ990427_26.9922.C5.o3.tc	Method	TBLASTX:Cress
Start	916	End	1161
GI	none	Score	39
Exons	916..951, 926..952, 958..1161, 977..1105, 981..1154, 985..1155		

Seq. No.	14352	Seq. ID	OJ990427_26.9922.C5
Gene No.	30670	Strand	+
Start	878	End	1227
Name	OJ990427_26.9922.C5.o1.ts	Method	TBLASTX:Soybean
Start	954	End	1226
GI	none	Score	141
Exons	954..1106, 958..1191, 968..1105, 985..1155, 1138..1191, 1183..1221, 1194..1226		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30671	Strand	+
Start	236	End	1340
Name	OJ990427_26.9922.C6.o2.gp	Method	AAT/GAP
Start	236	End	1340
GI	2291_1.R1084	Score	2153
Exons	236..1340		
GI Descrip.	'133936/sp|P12146|RR3_ORYSA 3.0e-27 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir__R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934_ (X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf__1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30672	Strand	+
Start	1355	End	2827
Name	OJ990427_26.9922.C6.o3.gp	Method	AAT/GAP
Start	1355	End	2827
GI	3073_1.R1084	Score	2927
Exons	1355..2827		
GI Descrip.	'133936/sp|P12146|RR3_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir__R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934_ (X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf__1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30673	Strand	-
Start	1	End	153
Name	OJ990427_26.9922.C6.o1.gp	Method	AAT/GAP
Start	1	End	153
GI	LIB3432-015-P1-K1-H8	Score	261
Exons	1..153		
GI Descrip.	'11957/emb|X15901|CHOSXX 1.0e-129 Rice complete chloroplast genome'		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o7.tm	Method	TBLASTX:Maize
Start	255	End	578
GI	none	Score	352
Exons	255..503, 256..504, 265..504, 266..559, 510..578, 522..554		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o6.tc	Method	TBLASTX:Cress
Start	294	End	1516
GI	none	Score	49
Exons	294..335, 302..322, 354..416, 372..416, 409..498, 413..505, 626..652, 648..692, 801..863, 974..1015, 985..1032, 1105..1347, 1112..1483, 1154..1516, 1155..1511		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o4.tw	Method	TBLASTX:Wheat
Start	378	End	1012
GI	none	Score	71
Exons	378..440, 378..536, 379..528, 380..556, 503..589, 504..590, 513..587, 526..588, 575..688, 584..691, 589..696, 698..907, 704..817, 706..885, 765..935, 775..945, 789..935, 965..1012, 979..1011		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o6.tm	Method	TBLASTX:Maize
Start	619	End	1024

GI	none	Score	59
Exons	619..648, 620..652, 645..686, 645..692, 649..687, 650..907, 650..820, 777..935, 778..885, 781..942, 789..923, 875..934, 943..1023, 965..1024		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o2.tm	Method	TBLASTX:Maize
Start	1082	End	2844
GI	none	Score	37
Exons	1082..1114, 1091..1663, 1093..1311, 1106..1504, 1113..1661, 1556..1663, 1616..1894, 1658..1897, 1877..2335, 1889..2335, 2327..2401, 2328..2396, 2346..2450, 2415..2633, 2434..2748, 2443..2712, 2450..2749, 2679..2753, 2685..2753, 2714..2803, 2740..2799, 2742..2843, 2742..2843, 2755..2844		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o1.ts	Method	TBLASTX:Soybean
Start	1169	End	4210
GI	none	Score	345
Exons	1169..1549, 1170..1538, 1553..1660, 1724..1873, 1724..1873, 1783..1878, 1868..1897, 2478..2630, 2482..2715, 2492..2716, 2720..2746, 2721..2744, 2941..3285, 2994..3284, 2995..3324, 3050..3289, 3230..3439, 3257..3454, 3357..3455, 3426..3572, 3441..3539, 3531..3575, 3533..3574, 3534..3575, 3575..3754, 3577..3753, 3578..3805, 3759..3836, 3760..3837, 3815..4210, 3829..4122		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o1.tw	Method	TBLASTX:Wheat
Start	1563	End	2331
GI	none	Score	134
Exons	1563..1697, 1565..1897, 1565..1894, 1875..1913, 1928..2326, 1930..2331, 1934..2329, 1945..2331		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o7.tc	Method	TBLASTX:Cress
Start	1759	End	2275
GI	none	Score	129
Exons	1759..1857, 1760..1870, 1767..1871, 1774..1872, 1921..2028, 1943..2239, 1952..2275		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o9.ts	Method	TBLASTX:Soybean
Start	1950	End	2278
GI	none	Score	137
Exons	1950..2240, 1952..2278, 1964..2245		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o4.tc	Method	TBLASTX:Cress
Start	2617	End	3505
GI	none	Score	92
Exons	2617..2715, 2620..2709, 2855..2905, 2856..2906, 2856..2933, 2857..2913, 2907..2936, 2907..2936, 2908..2937, 2993..3160, 2994..3113, 2995..3162, 2995..3165, 3050..3166, 3176..3424, 3180..3419, 3181..3420, 3188..3505, 3357..3425		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o3.tm	Method	TBLASTX:Maize
Start	3026	End	3855
GI	none	Score	1254
Exons	3026..3847, 3027..3848, 3050..3850, 3484..3855, 3709..3849		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o6.tw	Method	TBLASTX:Wheat
Start	3167	End	3473
GI	none	Score	448
Exons	3167..3472, 3167..3472, 3357..3473		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o1.tc	Method	TBLASTX:Cress
Start	3759	End	4978
GI	none	Score	79
Exons	3759..3800, 3761..3934, 3761..3955, 3837..3968, 3954..4067, 3955..4071, 3956..4075, 4079..4288, 4081..4794, 4084..4794, 4781..4879, 4791..4886, 4795..4887, 4799..4885, 4813..4887, 4888..4968, 4892..4978, 4893..4976		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o4.tm	Method	TBLASTX:Maize
Start	4079	End	4854
GI	none	Score	304
Exons	4079..4288, 4081..4329, 4084..4329, 4158..4331, 4265..4330, 4324..4854, 4333..4854		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o3.ts	Method	TBLASTX:Soybean
Start	4211	End	4788
GI	none	Score	107
Exons	4211..4288, 4213..4788, 4215..4472, 4216..4782		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-

Start	9918	End	13067
Name	OJ990427_26.9922.C6.o2.tw	Method	TBLASTX:Wheat
Start	4449	End	4826
GI	none	Score	51
Exons	4449..4475, 4449..4799, 4450..4824, 4450..4824, 4451..4825, 4524..4826		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o8.tw	Method	TBLASTX:Wheat
Start	4827	End	5054
GI	none	Score	104
Exons	4827..4886, 4829..4885, 4893..5054, 4908..5054		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o8.tc	Method	TBLASTX:Cress
Start	5208	End	5613
GI	none	Score	61
Exons	5208..5252, 5252..5398, 5252..5401, 5253..5402, 5254..5400, 5397..5423, 5398..5424, 5429..5464, 5450..5479, 5450..5479, 5482..5613, 5484..5564		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o10.ts	Method	TBLASTX:Soybean
Start	5561	End	5740
GI	none	Score	52
Exons	5561..5590, 5563..5586, 5596..5736, 5600..5740		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o5.tw	Method	TBLASTX:Wheat
Start	6909	End	7395
GI	none	Score	92
Exons	6909..6986, 6909..6986, 6910..6987, 6910..6987, 6987..7031, 6988..7044, 6988..7044, 7019..7099, 7024..7101, 7026..7103, 7035..7097, 7051..7116, 7061..7129, 7062..7103, 7089..7109, 7114..7164, 7114..7155, 7115..7207, 7115..7165, 7154..7393, 7161..7394, 7213..7395, 7348..7395		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o4.ts	Method	TBLASTX:Soybean
Start	7190	End	7683
GI	none	Score	684
Exons	7190..7681, 7200..7598, 7202..7681, 7348..7683, 7561..7683		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o8.ts	Method	TBLASTX:Soybean

Start	8889	End	9115
GI	none	Score	347
Exons	8889..9113, 8889..9113, 8891..9115, 8891..9115		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o5.ts	Method	TBLASTX:Soybean
Start	9116	End	9568
GI	none	Score	448
Exons	9116..9433, 9120..9434, 9148..9435, 9421..9498, 9438..9497, 9451..9567, 9453..9566, 9482..9568, 9482..9568		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o5.tm	Method	TBLASTX:Maize
Start	9651	End	10005
GI	none	Score	564
Exons	9651..9968, 9652..10005, 9654..10004		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o2.ts	Method	TBLASTX:Soybean
Start	9681	End	10405
GI	none	Score	59
Exons	9681..9728, 9684..9725, 9724..9954, 9728..9973, 9729..9968, 9979..10287, 9980..10225, 10026..10226, 10242..10286, 10278..10400, 10280..10405, 10280..10405		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o5.tc	Method	TBLASTX:Cress
Start	9693	End	10215
GI	none	Score	47
Exons	9693..9728, 9694..9732, 9696..9725, 9728..9973, 9729..9956, 9730..9981, 9978..10100, 9979..10092, 9980..10114, 10092..10118, 10108..10215, 10110..10202		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o4.gp	Method	AAT/GAP
Start	9918	End	11887
GI	183_5.R1084	Score	2766
Exons	9918..10302, 10843..11887		
GI Descrip.	'133999/sp|P05424|RR7_ORYSA 1.0e-48 CHLOROPLAST 30S RIBOSOMAL PROTEIN S7 >gi_70904_pir__R3RZ7 ribosomal protein S7 - rice chloroplast >gi_12037_emb_CAA33942_ (X15901) ribosomal protein S7 [Oryza sativa] >gi_12065_emb_CAA33919_ (X15901) ribosomal protein S7 [Oryza sativa] >gi_226657_prf__1603356CH ribosomal protein S7 [Oryza sativa]'		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-

Start	9918	End	13067
Name	OJ990427_26.9922.C6.o1.tm	Method	TBLASTX:Maize
Start	10007	End	11885
GI	none	Score	756
Exons	10007..10477, 10008..11444, 10026..11438, 10972..11445, 11353..11454, 11500..11583, 11501..11584, 11526..11585, 11578..11877, 11580..11885, 11583..11885		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o7.tw	Method	TBLASTX:Wheat
Start	10082	End	10301
GI	none	Score	99
Exons	10082..10192, 10085..10165, 10086..10169, 10149..10280, 10151..10264, 10268..10300, 10269..10301		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o9.tc	Method	TBLASTX:Cress
Start	10262	End	10422
GI	none	Score	194
Exons	10262..10417, 10273..10383, 10280..10417, 10282..10422		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o6.ts	Method	TBLASTX:Soybean
Start	10407	End	10809
GI	none	Score	178
Exons	10407..10529, 10408..10530, 10408..10530, 10542..10655, 10542..10655, 10628..10807, 10654..10809, 10656..10808, 10657..10809		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o3.tw	Method	TBLASTX:Wheat
Start	10677	End	11087
GI	none	Score	42
Exons	10677..10736, 10728..11087, 10743..11084		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o3.tc	Method	TBLASTX:Cress
Start	10697	End	11445
GI	none	Score	740
Exons	10697..11218, 10698..11174, 10698..11219, 11169..11285, 11173..11286, 11174..11200, 11177..11293, 11178..11294, 11230..11298, 11262..11336, 11267..11368, 11300..11347, 11337..11411, 11353..11421, 11363..11407, 11397..11438, 11403..11444, 11425..11445		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-

Start	9918	End	13067
Name	OJ990427_26.9922.C6.o7.ts	Method	TBLASTX:Soybean
Start	10967	End	12080
GI	none	Score	308
Exons	10967..11167, 10968..11174, 11151..11273, 11183..11278, 11184..11273, 11230..11280, 11237..11284, 11300..11335, 11304..11336, 11336..11377, 11343..11378, 11366..11428, 11501..11566, 11502..11567, 11503..11568, 11561..11587, 11562..11588, 11595..11699, 11622..11699, 11707..11799, 11726..11782, 11814..11852, 11913..12071, 11914..12069, 11915..12079, 11940..12080		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o10.tc	Method	TBLASTX:Cress
Start	11505	End	11726
GI	none	Score	40
Exons	11505..11540, 11530..11571, 11542..11574, 11564..11701, 11565..11708, 11566..11709, 11566..11697, 11567..11698, 11703..11726		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o2.tc	Method	TBLASTX:Cress
Start	11727	End	13067
GI	none	Score	110
Exons	11727..11822, 11727..11813, 11820..11846, 11820..11846, 11822..11851, 11913..12059, 11920..12051, 11954..12052, 12016..12087, 12106..12183, 12107..12187, 12108..12188, 12180..12251, 12183..12251, 12184..12252, 12207..12314, 12221..12289, 12253..12315, 12311..12442, 12331..12447, 12333..12440, 12387..12494, 12436..12495, 12513..12560, 12513..12560, 12514..12690, 12515..12697, 12598..12699, 12600..12698, 12724..12783, 12726..12785, 12728..12799, 12737..12790, 12792..12908, 12794..12910, 12878..13003, 12887..12994, 12906..13001, 12910..13002, 12916..13008, 13002..13028, 13002..13028, 13003..13029, 13006..13041, 13032..13067, 13032..13067		

Seq. No.	14353	Seq. ID	OJ990427_26.9922.C6
Gene No.	30674	Strand	-
Start	9918	End	13067
Name	OJ990427_26.9922.C6.o9.tw	Method	TBLASTX:Wheat
Start	12812	End	13067
GI	none	Score	76
Exons	12812..12907, 12812..12889, 12878..12949, 12887..12949, 12919..12960, 12923..13009, 12945..13010, 12996..13067, 13013..13066, 13014..13067		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30675	Strand	+
Start	1	End	531
Name	OJ990427_26.9922.C7.o1.gp	Method	AAT/GAP
Start	1	End	531
GI	481_1.R1084	Score	998

Exons	1..531		
GI Descrip.	'132672/sp|P12137|RK14_ORYSA 6.0e-57 CHLOROPLAST 50S RIBOSOMAL PROTEIN L14 >gi_71224_pir__R5RZ14 ribosomal protein L14 - rice chloroplast >gi_12023_emb_CAA33932_ (X15901) ribosomal protein L14 [Oryza sativa] >gi_226644_prf__1603356BU ribosomal protein L14 [Oryza sativa]'		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30676	Strand	+
Start	2275	End	2840
Name	OJ990427_26.9922.C7.o3.gp	Method	AAT/GAP
Start	2275	End	2840
GI	2798177	Score	1010
Exons	2275..2840		
GI Descrip.	5881726/dbj|BAA84417.1| 3.0e-24 (AP000423) RNA polymerase alpha subunit [Arabidopsis thaliana]		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30677	Strand	+
Start	5978	End	6141
Name	OJ990427_26.9922.C7.o5.gp	Method	AAT/GAP
Start	5978	End	6141
GI	uC-osflcyp084g07a1	Score	201
Exons	5978..6141		
GI Descrip.	'11957/emb|X15901|CHOSXX 7.0e-38 Rice complete chloroplast genome'		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30678	Strand	+
Start	6271	End	6722
Name	OJ990427_26.9922.C7.o6.gp	Method	AAT/GAP
Start	6271	End	6722
GI	uC-osflcyp003h11b1	Score	872
Exons	6271..6722		
GI Descrip.	'131332/sp|P09449|PSBH_ORYSA 1.0e-09 PHOTOSYSTEM II 10 KD PHOSPHOPROTEIN >gi_72716_pir__F2RZ0P photosystem II phosphoprotein psbH - rice chloroplast >gi_11953_emb_CAA31204_ (X12695) 10 kD phosphoprotein (AA 1 - 73) [Oryza sativa] >gi_12016_emb_CAA33976_ (X15901) PSII 10kDa phosphoprotein [Oryza sativa] >gi_226635_prf__1603356BJ photosystem II 10kD phosphoprotein [Oryza sativa]'		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30679	Strand	-
Start	718	End	1126
Name	OJ990427_26.9922.C7.o2.gp	Method	AAT/GAP
Start	718	End	1126
GI	uC-osflcyp086h07a1	Score	786
Exons	718..1126		
GI Descrip.	'5881726/dbj|BAA84417.1| 3.0e-24 (AP000423) RNA polymerase alpha subunit [Arabidopsis thaliana]'		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30680	Strand	-
Start	5315	End	5821
Name	OJ990427_26.9922.C7.o4.gp	Method	AAT/GAP
Start	5315	End	5821

GI	uC-osf1cyp011b01b1	Score	987
Exons	5315..5821		
GI Descrip.	'343210 5.0e-78 (M35995) apocytochrome b6 (alt.) [Oryza sativa] >gi_226762_prf__1604469A cytochrome b6 [Oryza sativa]'		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o6.ts	Method	TBLASTX:Soybean
Start	14	End	1026
GI	none	Score	97
Exons	14..181, 90..161, 94..180, 113..187, 117..194, 170..364, 178..207, 182..484, 183..473, 470..535, 491..799, 552..578, 576..797, 612..803, 613..819, 792..1019, 810..1019, 814..1026, 862..1026		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o6.tm	Method	TBLASTX:Maize
Start	16	End	332
GI	none	Score	422
Exons	16..207, 18..287, 20..286, 287..331, 287..331, 288..332		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o6.tc	Method	TBLASTX:Cress
Start	27	End	480
GI	none	Score	105
Exons	27..59, 31..180, 83..181, 96..161, 117..194, 122..187, 175..207, 182..274, 183..275, 228..275, 275..472, 276..479, 280..480		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o3.tw	Method	TBLASTX:Wheat
Start	221	End	585
GI	none	Score	402
Exons	221..499, 222..482, 224..499, 508..564, 508..576, 510..566, 546..584, 550..585, 550..585		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o1.tm	Method	TBLASTX:Maize
Start	373	End	1889
GI	none	Score	78
Exons	373..435, 374..808, 375..1019, 391..1038, 508..1038, 956..1039, 1057..1110, 1058..1108, 1071..1115, 1123..1203, 1150..1428, 1161..1475, 1161..1439, 1167..1205, 1213..1491, 1413..1463, 1499..1738, 1514..1735, 1755..1772, 1756..1827, 1783..1866, 1784..1846, 1785..1865, 1836..1889, 1839..1889		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496

Name	OJ990427_26.9922.C7.o5.tc	Method	TBLASTX:Cress
Start	506	End	1026
GI	none	Score	36
Exons	506..544, 547..588, 555..587, 603..797, 604..792, 610..819, 612..806, 814..1026, 822..1019, 853..1023		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o2.tw	Method	TBLASTX:Wheat
Start	657	End	1115
GI	none	Score	531
Exons	657..1019, 664..1038, 665..934, 666..1019, 1040..1060, 1058..1108, 1071..1115, 1071..1109		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o7.ts	Method	TBLASTX:Soybean
Start	1203	End	1406
GI	none	Score	264
Exons	1203..1406, 1217..1405		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o8.ts	Method	TBLASTX:Soybean
Start	1851	End	2103
GI	none	Score	84
Exons	1851..1952, 1858..1947, 1859..1951, 1931..2092, 1932..2102, 1932..2093, 1933..2103, 2011..2103		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o7.tm	Method	TBLASTX:Maize
Start	1890	End	2178
GI	none	Score	275
Exons	1890..2060, 1891..2061, 1892..2062, 2061..2177, 2061..2177, 2065..2178		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o4.tc	Method	TBLASTX:Cress
Start	2058	End	2645
GI	none	Score	100
Exons	2058..2156, 2059..2154, 2133..2288, 2147..2317, 2156..2317, 2157..2321, 2158..2331, 2191..2325, 2312..2353, 2314..2358, 2314..2358, 2331..2390, 2373..2645, 2402..2641, 2427..2642		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o10.tm	Method	TBLASTX:Maize
Start	2195	End	2457
GI	none	Score	144

Exons 2195..2314, 2196..2288, 2200..2316, 2200..2316, 2201..2329, 2379..2438, 2383..2457, 2383..2436, 2399..2437

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o2.ts	Method	TBLASTX:Soybean
Start	2373	End	3137
GI	none	Score	960
Exons	2373..3137, 2380..3066, 2402..3130, 2427..3137		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o4.tm	Method	TBLASTX:Maize
Start	2465	End	2939
GI	none	Score	719
Exons	2465..2938, 2466..2939, 2466..2939		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o9.tc	Method	TBLASTX:Cress
Start	2888	End	3330
GI	none	Score	148
Exons	2888..3019, 2888..3082, 2899..3030, 2901..3137, 2901..3128, 3180..3224, 3236..3274, 3241..3279, 3265..3330		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o3.ts	Method	TBLASTX:Soybean
Start	3157	End	4719
GI	none	Score	188
Exons	3157..3351, 3177..3353, 3181..3354, 3508..3588, 3509..3565, 3607..3705, 3609..4175, 3611..4165, 3613..4182, 3636..4175, 3745..4200, 4312..4359, 4312..4353, 4436..4462, 4478..4624, 4479..4568, 4600..4719, 4627..4719		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o8.tc	Method	TBLASTX:Cress
Start	3730	End	3935
GI	none	Score	288
Exons	3730..3933, 3732..3935		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o7.tc	Method	TBLASTX:Cress
Start	3936	End	4182
GI	none	Score	313
Exons	3936..4169, 3937..4182		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-

Start	7878	End	8496
Name	OJ990427_26.9922.C7.o8.tm	Method	TBLASTX:Maize
Start	4628	End	4868
GI	none	Score	72
Exons	4628..4672, 4630..4671, 4673..4867, 4674..4868, 4676..4867		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o1.tc	Method	TBLASTX:Cress
Start	4805	End	7451
GI	none	Score	67
Exons	4805..4858, 4805..4858, 4902..4976, 4910..4981, 4911..4979, 5017..5679, 5034..5150, 5034..5681, 5035..5673, 5190..5684, 6515..6541, 6612..6854, 6621..6647, 6625..6855, 6687..6860, 6854..6892, 6867..6893, 6894..7097, 6900..7097, 6904..7101, 7133..7255, 7162..7254, 7254..7334, 7254..7334, 7366..7446, 7367..7447, 7368..7451, 7371..7448		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o1.ts	Method	TBLASTX:Soybean
Start	4942	End	6188
GI	none	Score	47
Exons	4942..4977, 4949..4978, 5007..5141, 5007..5723, 5008..5673, 5190..5711, 5700..5762, 5703..5762, 5719..5763, 6044..6082, 6048..6080, 6089..6142, 6090..6140, 6144..6188		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o3.tm	Method	TBLASTX:Maize
Start	5034	End	5678
GI	none	Score	570
Exons	5034..5678, 5035..5616, 5208..5675		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o2.tm	Method	TBLASTX:Maize
Start	6318	End	7082
GI	none	Score	70
Exons	6318..6344, 6350..6481, 6351..6392, 6386..6466, 6438..6470, 6471..6521, 6472..6522, 6472..6522, 6509..6580, 6510..6539, 6514..6591, 6515..6580, 6560..6670, 6569..6931, 6571..6858, 6576..7082, 6687..7082		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o5.ts	Method	TBLASTX:Soybean
Start	6489	End	7165
GI	none	Score	75
Exons	6489..6539, 6490..6540, 6612..6848, 6621..6647, 6625..6855, 6625..6855, 6687..6860, 6853..6912, 6863..6901, 6948..7100, 6948..7106, 6949..7128, 7139..7165		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o4.tw	Method	TBLASTX:Wheat
Start	6751	End	7000
GI	none	Score	73
Exons	6751..6831, 6761..6829, 6762..6830, 6763..6831, 6764..6832, 6831..6998, 6833..7000		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o3.tc	Method	TBLASTX:Cress
Start	7536	End	7944
GI	none	Score	424
Exons	7536..7943, 7536..7943, 7756..7944		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o5.tm	Method	TBLASTX:Maize
Start	7825	End	8139
GI	none	Score	513
Exons	7825..8139, 7827..8138		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o4.ts	Method	TBLASTX:Soybean
Start	7835	End	8279
GI	none	Score	106
Exons	7835..7936, 7835..8278, 7839..8279, 7840..8277, 7973..8278		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o7.gp	Method	AAT/GAP
Start	7878	End	8430
GI	2896_1.R1084	Score	1023
Exons	7878..8430		
GI Descrip.	'131271/sp|P12157|PSBB_ORYSA 2.0e-88 PHOTOSYSTEM II P680 CHLOROPHYLL A APOPROTEIN (CP-47 PROTEIN) >gi_72705_pir__QJRZ6A photosystem II chlorophyll a-binding protein psbB - rice chloroplast >gi_12013_emb_CAA33973_ (X15901) PSII 47kDa protein [Oryza sativa] >gi_226634_prf__1603356BH photosystem II 47kD protein [Oryza sativa]'		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o2.tc	Method	TBLASTX:Cress
Start	7946	End	8496
GI	none	Score	418
Exons	7946..8161, 7950..8354, 7950..8351, 7954..8310, 8328..8495, 8349..8489, 8350..8496		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o1.tw	Method	TBLASTX:Wheat
Start	7958	End	8388
GI	none	Score	652
Exons	7958..8161, 7959..8387, 7959..8387, 8344..8388		

Seq. No.	14354	Seq. ID	OJ990427_26.9922.C7
Gene No.	30681	Strand	-
Start	7878	End	8496
Name	OJ990427_26.9922.C7.o9.tm	Method	TBLASTX:Maize
Start	8142	End	8351
GI	none	Score	82
Exons	8142..8207, 8211..8351, 8213..8350		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30682	Strand	+
Start	1113	End	1280
Name	OJ990427_26.9922.C8.o1.gp	Method	AAT/GAP
Start	1113	End	1280
GI	LIB3431-017-P1-K1-H4	Score	283
Exons	1113..1280		
GI Descrip.	'1173189/sp|P12340|RR12_MAIZE 8.0e-18 CHLOROPLAST 30S RIBOSOMAL PROTEIN S12 >gi_2119091_pir__S58629 ribosomal protein S12 - maize chloroplast >gi_342619 (M17841) ribosomal protein S12 [Zea mays] >gi_1216141_emb_CAA60309_ (X86563) ribosomal protein S12 [Zea mays]'		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30683	Strand	-
Start	3595	End	4117
Name	OJ990427_26.9922.C8.o2.gp	Method	AAT/GAP
Start	3595	End	4117
GI	uC-osflm202104g03b1	Score	1026
Exons	3595..4117		
GI Descrip.	'131211/sp|P19443|PSAJ_MAIZE 6.0e-10 PHOTOSYSTEM I REACTION CENTRE SUBUNIT IX (PSI-J) >gi_1363533_pir__S58571 photosystem I protein psaJ - maize chloroplast >gi_552734 (J04502) ORF42 [Zea mays] >gi_902241_emb_CAA60305_ (X86563) psaJ [Zea mays]'		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o1.tm	Method	TBLASTX:Maize
Start	277	End	1281
GI	none	Score	522
Exons	277..600, 278..601, 570..992, 571..1086, 595..1080, 1089..1115, 1089..1115, 1093..1116, 1117..1161, 1117..1155, 1148..1279, 1148..1279, 1149..1280, 1149..1280, 1153..1281		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o2.ts	Method	TBLASTX:Soybean
Start	321	End	810
GI	none	Score	38

Exons	321..344, 322..360, 363..554, 382..600, 383..601, 592..801, 593..799, 600..803, 601..810		
Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o3.tc	Method	TBLASTX:Cress
Start	363	End	792
GI	none	Score	154
Exons	363..587, 382..600, 383..601, 573..791, 601..792		
Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o3.ts	Method	TBLASTX:Soybean
Start	812	End	1860
GI	none	Score	184
Exons	812..961, 813..959, 814..969, 814..969, 1120..1164, 1120..1146, 1149..1325, 1166..1300, 1167..1328, 1376..1441, 1381..1434, 1524..1595, 1536..1628, 1537..1629, 1570..1635, 1625..1678, 1632..1700, 1635..1679, 1690..1731, 1695..1733, 1696..1731, 1697..1732, 1735..1776, 1735..1776, 1737..1787, 1802..1852, 1810..1860		
Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o8.tm	Method	TBLASTX:Maize
Start	1282	End	1470
GI	none	Score	227
Exons	1282..1440, 1283..1438, 1284..1442, 1442..1468, 1442..1468, 1444..1470		
Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o9.tc	Method	TBLASTX:Cress
Start	1380	End	1956
GI	none	Score	59
Exons	1380..1424, 1453..1497, 1453..1494, 1533..1595, 1534..1677, 1580..1678, 1641..1679, 1641..1679, 1684..1731, 1684..1731, 1695..1733, 1735..1767, 1742..1768, 1743..1769, 1743..1769, 1805..1852, 1806..1865, 1855..1890, 1858..1887, 1927..1956		
Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o5.tc	Method	TBLASTX:Cress
Start	2555	End	3488
GI	none	Score	252
Exons	2555..2653, 2698..2859, 2711..2875, 2711..2875, 2887..2979, 2956..3003, 3270..3488, 3271..3471		
Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o4.ts	Method	TBLASTX:Soybean

Start	2698	End	4061
GI	none	Score	257
Exons	2698..2859, 2702..2875, 2706..2876, 2707..2877, 2711..2875, 2887..2949, 2937..3008, 2944..3006, 2956..3000, 2979..3035, 3258..3488, 3271..3474, 3271..3501, 3347..3511, 3907..4059, 3907..4059, 3954..4061		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o6.tm	Method	TBLASTX:Maize
Start	3300	End	3647
GI	none	Score	306
Exons	3300..3536, 3300..3494, 3304..3504, 3338..3547, 3554..3637, 3579..3647		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o4.tm	Method	TBLASTX:Maize
Start	3820	End	4136
GI	none	Score	455
Exons	3820..4134, 3820..4134, 3827..4135, 3954..4136		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o6.tw	Method	TBLASTX:Wheat
Start	3832	End	4220
GI	none	Score	359
Exons	3832..4107, 3847..4113, 3869..4117, 4140..4178, 4142..4219, 4160..4219, 4161..4220		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o8.tc	Method	TBLASTX:Cress
Start	3898	End	4058
GI	none	Score	219
Exons	3898..4056, 3911..4057, 3954..4058		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o2.tm	Method	TBLASTX:Maize
Start	4682	End	5425
GI	none	Score	351
Exons	4682..4897, 4688..4894, 4689..4895, 4855..4962, 4893..4961, 4949..4978, 4959..5012, 4960..4986, 4981..5013, 5028..5198, 5030..5200, 5194..5280, 5196..5279, 5249..5398, 5253..5393, 5253..5402, 5267..5425		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o5.ts	Method	TBLASTX:Soybean
Start	4741	End	4956

GI	none	Score	219
Exons	4741..4896, 4742..4897, 4891..4956		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o6.tc	Method	TBLASTX:Cress
Start	4756	End	5098
GI	none	Score	172
Exons	4756..4881, 4760..4870, 4891..4956, 4891..4953, 5012..5098, 5031..5096		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o2.tw	Method	TBLASTX:Wheat
Start	4991	End	5587
GI	none	Score	168
Exons	4991..5167, 4992..5162, 5155..5268, 5155..5280, 5156..5281, 5157..5276, 5264..5314, 5266..5343, 5266..5313, 5268..5315, 5318..5395, 5318..5395, 5319..5402, 5393..5434, 5458..5583, 5458..5580, 5459..5587, 5487..5582		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o9.tm	Method	TBLASTX:Maize
Start	5767	End	6175
GI	none	Score	80
Exons	5767..5844, 5780..5842, 5874..5951, 5879..5950, 5955..6017, 5958..6020, 5960..6025, 5997..6038, 6032..6124, 6032..6091, 6036..6092, 6097..6153, 6099..6152, 6104..6157, 6104..6175		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o5.tw	Method	TBLASTX:Wheat
Start	5949	End	6350
GI	none	Score	148
Exons	5949..6074, 5952..6095, 5974..6120, 6114..6329, 6114..6317, 6276..6350, 6299..6349, 6300..6350		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o2.tc	Method	TBLASTX:Cress
Start	6205	End	6783
GI	none	Score	59
Exons	6205..6276, 6210..6272, 6279..6308, 6280..6312, 6307..6588, 6312..6593, 6316..6588, 6324..6590, 6594..6722, 6595..6723, 6596..6724, 6725..6781, 6726..6782, 6726..6782, 6730..6783		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o10.tm	Method	TBLASTX:Maize
Start	6211	End	6363

GI	none	Score	79
Exons	6211..6252, 6211..6255, 6255..6308, 6255..6308, 6256..6309, 6256..6315, 6294..6362, 6302..6361, 6310..6363, 6316..6363		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o1.tw	Method	TBLASTX:Wheat
Start	6428	End	6870
GI	none	Score	640
Exons	6428..6868, 6430..6870, 6444..6869		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o4.tc	Method	TBLASTX:Cress
Start	6822	End	7159
GI	none	Score	68
Exons	6822..6875, 6824..6874, 6914..7156, 6914..7159		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o5.tm	Method	TBLASTX:Maize
Start	6822	End	7105
GI	none	Score	110
Exons	6822..6890, 6823..6888, 6824..6889, 6835..6891, 6851..7105, 6890..7105		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o4.tw	Method	TBLASTX:Wheat
Start	7978	End	8305
GI	none	Score	473
Exons	7978..8298, 7978..8298, 8042..8305		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o1.ts	Method	TBLASTX:Soybean
Start	8083	End	9619
GI	none	Score	1230
Exons	8083..9066, 8084..9067, 8864..9073, 9294..9599, 9302..9619		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o1.tc	Method	TBLASTX:Cress
Start	8123	End	9389
GI	none	Score	80
Exons	8123..8173, 8125..8181, 8125..8181, 8278..9066, 8287..9087, 8864..9073, 9309..9389, 9317..9388		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619

Name	OJ990427_26.9922.C8.o7.tw	Method	TBLASTX:Wheat
Start	8424	End	8541
GI	none	Score	187
Exons	8424..8540, 8425..8541, 8425..8538		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o7.tm	Method	TBLASTX:Maize
Start	8598	End	8766
GI	none	Score	284
Exons	8598..8765, 8599..8766, 8599..8763		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o3.gp	Method	AAT/GAP
Start	8682	End	9123
GI	uC-osf1M202092b08b1	Score	831
Exons	8682..9123		
GI Descrip.	'118048/sp|P07888|CYF_ORYSA 5.0e-65 APOCYTOCHROME F PRECURSOR >gi_65615_pir__CFRZ plastoquinol--plastocyanin reductase (EC 1.10.99.1) cytochrome f precursor - rice chloroplast >gi_12000_emb_CAA33961_ (X15901) cytochrome f [Oryza sativa] >gi_226621_prf__1603356AU cytochrome f [Oryza sativa]'		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o3.tm	Method	TBLASTX:Maize
Start	8766	End	9246
GI	none	Score	586
Exons	8766..9209, 8766..9206, 8767..9210, 8864..9211, 9200..9244, 9208..9246, 9210..9245		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o3.tw	Method	TBLASTX:Wheat
Start	8872	End	9298
GI	none	Score	195
Exons	8872..8997, 8873..8992, 8875..8994, 8999..9100, 8999..9187, 9000..9212, 9001..9192, 9127..9252, 9148..9267, 9197..9268, 9207..9284, 9258..9296, 9262..9297, 9272..9298		

Seq. No.	14355	Seq. ID	OJ990427_26.9922.C8
Gene No.	30684	Strand	-
Start	8682	End	9619
Name	OJ990427_26.9922.C8.o7.tc	Method	TBLASTX:Cress
Start	9390	End	9607
GI	none	Score	155
Exons	9390..9605, 9392..9607		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30685	Strand	+
Start	8	End	544
Name	OJ990427_26.9922.C9.o1.gp	Method	AAT/GAP

Start	8	End	544
GI	2653_1.R1084	Score	1031
Exons	8..544		
GI Descrip.	'11998/emb|CAA33959| 5.0e-35 (X15901) ORF85 [Oryza sativa] >gi_226619_prf__1603356AR ORF 85A [Oryza sativa]'		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30686	Strand	+
Start	5102	End	5618
Name	OJ990427_26.9922.C9.o5.gp	Method	AAT/GAP
Start	5102	End	5618
GI	uC-osf1M202083h12b1	Score	968
Exons	5102..5618		
GI Descrip.	'552857 3.0e-25 (M31464) atpB gene product [Oryza sativa]'		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30687	Strand	+
Start	8461	End	9430
Name	OJ990427_26.9922.C9.o6.gp	Method	AAT/GAP
Start	8461	End	9430
GI	2409_1.R1084	Score	1911
Exons	8461..9430		
GI Descrip.	'128690/sp|P12126|NU3C_ORYSA 2.0e-56 NADH-PLASTOQUINONE OXIDOREDUCTASE CHAIN 3, CHLOROPLAST >gi_66161_pir__DERZN3 NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 3 - rice chloroplast >gi_11989_emb_CAA34001_ (X15901) ndhC; NADH dehydrogenase ND3 [Oryza sativa] >gi_226610_prf__1603356AG NADH dehydrogenase ND3 [Oryza sativa]'		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30688	Strand	+
Start	11481	End	11538
Name	OJ990427_26.9922.C9.o7.gp	Method	AAT/GAP
Start	11481	End	11538
GI	56420_1.R1084	Score	87
Exons	11481..11538		
GI Descrip.	'2979562 2.0e-16 (AC003680) unknown protein [Arabidopsis thaliana] >gi_3386623 (AC004665) unknown protein [Arabidopsis thaliana]'		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30689	Strand	+
Start	13271	End	13386
Name	OJ990427_26.9922.C9.o8.gp	Method	AAT/GAP
Start	13271	End	13386
GI	LIB3431-013-P1-K1-B3	Score	181
Exons	13271..13386		
GI Descrip.	'6002093/emb|X84149.1|CHZLRPS4G 9.0e-21 Zizania latifolia cloroplast rps4 gene for ribosomal protein S4'		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30690	Strand	+
Start	20267	End	20697
Name	OJ990427_26.9922.C9.o10.gp	Method	AAT/GAP
Start	20267	End	20697
GI	uC-osf1cyp021g10b1	Score	766
Exons	20267..20697		

GI Descrip. '131148/sp|P12156|PSAB_ORYSA 6.0e-59 PHOTOSYSTEM I P700 CHLOROPHYLL A APOPROTEIN A2 >gi_72674_pir__A2RZP7 photosystem I P700 apoprotein A2 - rice chloroplast >gi_11981_emb_CAA33995_ (X15901) PSI P700 apoprotein A2 [Oryza sativa] >gi_226604_prf__1603356AA photosystem I P700 apoprotein A2 [Oryza sativa]'

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30691	Strand	-
Start	548	End	1171
Name	OJ990427_26.9922.C9.o2.gp	Method	AAT/GAP
Start	548	End	1171
GI	7528_2.R1084	Score	1143
Exons	548..1171		

GI Descrip. '140291/sp|P12206|YCF4_ORYSA 7.0e-68 HYPOTHETICAL 21.5 KD PROTEIN (ORF 185) >gi_82541_pir__S05116 hypothetical protein 185 - rice chloroplast >gi_11997_emb_CAA33958_ (X15901) ORF185 [Oryza sativa] >gi_226618_prf__1603356AQ ORF 185 [Oryza sativa]'

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30692	Strand	-
Start	2987	End	3812
Name	OJ990427_26.9922.C9.o3.gp	Method	AAT/GAP
Start	2987	End	3812
GI	14384_1.R1084	Score	1358
Exons	2987..3015, 3101..3812		

GI Descrip. '5881726/dbj|BAA84417.1| 3.0e-24 (AP000423) RNA polymerase alpha subunit [Arabidopsis thaliana]'

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30693	Strand	-
Start	3909	End	4638
Name	OJ990427_26.9922.C9.o4.gp	Method	AAT/GAP
Start	3909	End	4638
GI	24824_1.R1084	Score	1379
Exons	3909..4638		

GI Descrip. '476752 5.0e-87 (L24073) rubisco large subunit [Oryza sativa] >gi_1583954_prf__2121489A RuBisCO:SUBUNIT=large:ISOTYPE=truncated [Oryza sativa]'

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30694	Strand	-
Start	17063	End	17321
Name	OJ990427_26.9922.C9.o9.gp	Method	AAT/GAP
Start	17063	End	17321
GI	uC-osf1M202088b07a1	Score	514
Exons	17063..17321		

GI Descrip. '11957/emb|X15901|CHOSXX 2.0e-52 Rice complete chloroplast genome'

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o9.tm	Method	TBLASTX:Maize
Start	227	End	824
GI	none	Score	39
Exons	227..259, 235..255, 251..298, 252..296, 294..317, 295..318,		

404..808, 404..805, 406..813, 791..823, 792..824

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o14.ts	Method	TBLASTX:Soybean
Start	404	End	2128
GI	none	Score	56
Exons	404..481, 422..481, 503..559, 593..805, 636..839, 790..831, 1348..1434, 1349..1435, 1356..1445,	508..570, 508..567, 590..805, 827..988, 843..983, 1310..1447, 1907..2128, 1950..2069	

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o6.tc	Method	TBLASTX:Cress
Start	421	End	982
GI	none	Score	109
Exons	421..510, 422..505, 489..557,	491..979, 492..980, 497..982	

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o12.tm	Method	TBLASTX:Maize
Start	1063	End	1493
GI	none	Score	95
Exons	1063..1152, 1077..1148, 1078..1155, 1079..1177, 1125..1211, 1145..1216, 1145..1213, 1147..1224, 1197..1310, 1212..1310, 1213..1311, 1231..1311, 1314..1487, 1314..1493		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o22.tm	Method	TBLASTX:Maize
Start	2132	End	2877
GI	none	Score	153
Exons	2132..2194, 2726..2818, 2728..2832, 2746..2832, 2817..2849, 2818..2850, 2825..2875, 2839..2871, 2845..2877		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o11.tm	Method	TBLASTX:Maize
Start	3017	End	3553
GI	none	Score	75
Exons	3017..3076, 3019..3072, 3184..3528, 3184..3531, 3194..3553, 3338..3544		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o1.tw	Method	TBLASTX:Wheat
Start	3148	End	3900
GI	none	Score	1084
Exons	3148..3894, 3153..3899, 3154..3900, 3198..3899		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9

Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o15.tc	Method	TBLASTX:Cress
Start	3164	End	3433
GI	none	Score	343
Exons	3164..3265, 3165..3431, 3166..3432, 3166..3432, 3302..3433		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o20.tc	Method	TBLASTX:Cress
Start	3516	End	3663
GI	none	Score	198
Exons	3516..3662, 3527..3661, 3541..3663		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o20.tm	Method	TBLASTX:Maize
Start	3606	End	3895
GI	none	Score	223
Exons	3606..3875, 3607..3894, 3611..3895, 3612..3890		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o6.tm	Method	TBLASTX:Maize
Start	3898	End	4644
GI	none	Score	54
Exons	3898..3948, 3904..4632, 3946..4644		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o3.ts	Method	TBLASTX:Soybean
Start	3968	End	4671
GI	none	Score	567
Exons	3968..4483, 3968..4648, 3970..4671, 3985..4671		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o7.tw	Method	TBLASTX:Wheat
Start	4043	End	4225
GI	none	Score	266
Exons	4043..4225, 4045..4224		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o9.tc	Method	TBLASTX:Cress
Start	4186	End	4662
GI	none	Score	549
Exons	4186..4623, 4186..4626, 4205..4627, 4278..4628, 4630..4662		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-

Start	22934	End	23390
Name	OJ990427_26.9922.C9.o3.tw	Method	TBLASTX:Wheat
Start	4226	End	15877
GI	none	Score	265
Exons	4226..4651, 4227..4409, 4228..4680, 4228..4680, 4272..4700, 4664..4738, 4694..4792, 4701..4763, 4750..4911, 4766..4909, 4783..4911, 15806..15877		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o17.tm	Method	TBLASTX:Maize
Start	4645	End	4954
GI	none	Score	130
Exons	4645..4770, 4647..4772, 4737..4841, 4745..4855, 4747..4842, 4767..4844, 4790..4846, 4831..4950, 4832..4954		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o5.ts	Method	TBLASTX:Soybean
Start	4894	End	5979
GI	none	Score	884
Exons	4894..4950, 5384..5977, 5385..5978, 5628..5978, 5707..5979, 5719..5979		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o5.tw	Method	TBLASTX:Wheat
Start	5079	End	5511
GI	none	Score	308
Exons	5079..5288, 5079..5291, 5080..5301, 5113..5292, 5279..5365, 5290..5364, 5300..5410, 5362..5511, 5372..5509, 5416..5511		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o21.tm	Method	TBLASTX:Maize
Start	5096	End	5286
GI	none	Score	68
Exons	5096..5152, 5097..5150, 5100..5156, 5124..5285, 5147..5284, 5149..5286, 5149..5286		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o18.tm	Method	TBLASTX:Maize
Start	5287	End	5540
GI	none	Score	35
Exons	5287..5304, 5309..5338, 5309..5338, 5329..5538, 5361..5540		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o1.tc	Method	TBLASTX:Cress
Start	5381	End	7375

GI	none	Score	1992
Exons	5381..5959, 5382..6665, 5628..6419, 5707..6639, 6044..6664, 6505..6666, 6725..6832, 6726..7070, 6726..7049, 7037..7120, 7041..7280, 7047..7208, 7051..7281, 7051..7215, 7205..7375		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o4.tm	Method	TBLASTX:Maize
Start	5540	End	6854
GI	none	Score	591
Exons	5540..5959, 5559..6050, 5826..6068, 6069..6665, 6069..6425, 6080..6664, 6465..6665, 6726..6854, 6727..6849		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o4.tw	Method	TBLASTX:Wheat
Start	5655	End	6350
GI	none	Score	321
Exons	5655..5918, 5663..5932, 5943..5981, 5988..6050, 6069..6350, 6075..6344, 6080..6349		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o2.ts	Method	TBLASTX:Soybean
Start	5980	End	7281
GI	none	Score	1109
Exons	5980..6624, 5982..6665, 6044..6664, 6505..6666, 6726..7280, 6726..7190, 6730..7197, 6892..7281, 7205..7279		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o8.tw	Method	TBLASTX:Wheat
Start	6438	End	6822
GI	none	Score	269
Exons	6438..6665, 6461..6664, 6726..6821, 6727..6822		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o15.tm	Method	TBLASTX:Maize
Start	6958	End	7342
GI	none	Score	72
Exons	6958..7005, 6959..7027, 6995..7120, 7011..7229, 7012..7341, 7012..7302, 7205..7342		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o8.tm	Method	TBLASTX:Maize
Start	7510	End	8142
GI	none	Score	51
Exons	7510..7575, 7560..7814, 7607..7813, 7808..7861, 7809..8141, 7810..8142, 7811..8140		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o15.ts	Method	TBLASTX:Soybean
Start	7650	End	8319
GI	none	Score	83
Exons	7650..7715, 7658..7717, 7661..7732, 7788..7820, 7790..7819, 7914..7949, 7914..7949, 7951..8019, 7959..7991, 7973..8044, 7997..8110, 8029..8127, 8037..8111, 8046..8180, 8133..8162, 8161..8235, 8169..8255, 8173..8247, 8199..8318, 8214..8279, 8215..8319, 8231..8317		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o17.tc	Method	TBLASTX:Cress
Start	7742	End	8298
GI	none	Score	44
Exons	7742..7780, 7790..7819, 7826..8050, 7887..7952, 7937..8044, 8037..8099, 8058..8096, 8127..8177, 8158..8235, 8163..8234, 8173..8235, 8229..8270, 8229..8279, 8230..8298, 8231..8296		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o2.tm	Method	TBLASTX:Maize
Start	8227	End	10929
GI	none	Score	175
Exons	8227..8340, 8228..8338, 8319..8345, 8340..8402, 8342..8401, 8387..8509, 8401..8502, 8436..8558, 8481..8525, 8530..8592, 8530..8577, 8532..8594, 8624..8647, 8625..8651, 8640..8696, 8644..8697, 8645..8692, 8668..8697, 8674..8718, 8727..8909, 8728..8910, 8743..8910, 8754..8915, 8912..9118, 8912..9397, 8913..9413, 9124..9435, 9418..9969, 9438..9968, 9439..9969, 9449..9973, 9587..9970, 9939..10130, 9946..10161, 9956..10165, 9958..10122, 9959..10129, 10134..10172, 10152..10811, 10170..10805, 10808..10876, 10809..10880, 10837..10866, 10869..10928, 10878..10928, 10879..10929, 10879..10929		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o11.tc	Method	TBLASTX:Cress
Start	9011	End	9410
GI	none	Score	101
Exons	9011..9361, 9013..9078, 9015..9329, 9017..9361, 9154..9363, 9378..9410		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o10.ts	Method	TBLASTX:Soybean
Start	9071	End	9404
GI	none	Score	438
Exons	9071..9403, 9072..9401, 9129..9404		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o4.ts	Method	TBLASTX:Soybean
Start	9406	End	10090
GI	none	Score	584
Exons	9406..10089, 9442..10089, 9449..10090		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o4.tc	Method	TBLASTX:Cress
Start	9441	End	10158
GI	none	Score	333
Exons	9441..9755, 9442..9870, 9449..9871, 9865..9921, 9866..10132, 9908..9979, 9969..10133, 9970..10158		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o2.tw	Method	TBLASTX:Wheat
Start	9472	End	10003
GI	none	Score	844
Exons	9472..10002, 9473..10003		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o7.ts	Method	TBLASTX:Soybean
Start	10220	End	10670
GI	none	Score	689
Exons	10220..10594, 10236..10670, 10236..10670		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o7.tc	Method	TBLASTX:Cress
Start	10245	End	10722
GI	none	Score	703
Exons	10245..10721, 10247..10591, 10254..10721, 10255..10722, 10510..10722		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o21.tc	Method	TBLASTX:Cress
Start	11523	End	11659
GI	none	Score	128
Exons	11523..11546, 11524..11649, 11525..11656, 11536..11649, 11543..11659		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o7.tm	Method	TBLASTX:Maize
Start	11548	End	12539
GI	none	Score	141

Exons	11548..11649, 11549..11662, 11552..11662, 11589..11663, 11656..11724, 11660..11737, 11661..11738, 11661..11738, 11692..11739, 11733..11831, 11734..11832, 11792..11839, 11911..12003, 11915..12013, 11919..12038, 11922..12014, 12006..12041, 12008..12037, 12037..12273, 12038..12274, 12047..12277, 12048..12278, 12258..12428, 12270..12431, 12271..12429, 12424..12507, 12426..12539		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o9.tw	Method	TBLASTX:Wheat
Start	11900	End	12162
GI	none	Score	73
Exons	11900..11974, 11900..11986, 11974..12162, 11998..12039, 12005..12058, 12038..12154, 12045..12155		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o17.ts	Method	TBLASTX:Soybean
Start	11919	End	12186
GI	none	Score	82
Exons	11919..12041, 11922..11975, 11923..12015, 11924..12040, 11997..12047, 12003..12164, 12037..12186, 12037..12147		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o5.tc	Method	TBLASTX:Cress
Start	12899	End	13896
GI	none	Score	82
Exons	12899..12994, 12908..12994, 12913..13002, 12915..13034, 12918..12995, 13177..13248, 13200..13247, 13262..13396, 13266..13895, 13266..13886, 13267..13896, 13267..13893		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o19.tm	Method	TBLASTX:Maize
Start	13133	End	13390
GI	none	Score	36
Exons	13133..13159, 13134..13157, 13135..13158, 13155..13277, 13157..13276, 13167..13280, 13168..13278, 13190..13282, 13248..13388, 13276..13389, 13277..13390, 13277..13390		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o8.ts	Method	TBLASTX:Soybean
Start	13168	End	13671
GI	none	Score	41
Exons	13168..13224, 13268..13363, 13269..13670, 13269..13670, 13270..13671, 13276..13671		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-

Start	22934	End	23390
Name	OJ990427_26.9922.C9.o6.tw	Method	TBLASTX:Wheat
Start	13623	End	13986
GI	none	Score	446
Exons	13623..13946, 13624..13917, 13905..13961, 13905..13967, 13906..13974, 13906..13986		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o10.tm	Method	TBLASTX:Maize
Start	13651	End	14192
GI	none	Score	528
Exons	13651..13686, 13668..14021, 13678..14025, 13684..14037, 13958..14044, 14024..14107, 14027..14107, 14050..14109, 14109..14192, 14110..14190, 14111..14191		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o16.tm	Method	TBLASTX:Maize
Start	14273	End	14659
GI	none	Score	97
Exons	14273..14368, 14282..14368, 14283..14369, 14283..14372, 14284..14373, 14363..14458, 14368..14616, 14371..14655, 14504..14635, 14639..14659		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o3.tm	Method	TBLASTX:Maize
Start	14826	End	15982
GI	none	Score	35
Exons	14826..14846, 14827..14844, 14846..15010, 14847..15011, 14848..15027, 14849..15052, 14975..15631, 15006..15635, 15009..15599, 15022..15630, 15628..15780, 15629..15694, 15630..15980, 15645..15980, 15734..15982, 15835..15981		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o13.ts	Method	TBLASTX:Soybean
Start	14836	End	15512
GI	none	Score	225
Exons	14836..14997, 14843..15010, 14844..15011, 15089..15112, 15090..15116, 15111..15182, 15124..15168, 15128..15202, 15183..15209, 15243..15278, 15245..15268, 15321..15449, 15331..15450, 15357..15479, 15451..15492, 15452..15511, 15456..15512		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o13.tc	Method	TBLASTX:Cress
Start	14841	End	15575
GI	none	Score	201
Exons	14841..15023, 14841..15023, 14851..15030, 15116..15199,		

15121..15213, 15121..15201, 15212..15325, 15222..15326,
15222..15338, 15326..15445, 15333..15449, 15334..15450,
15334..15456, 15360..15491, 15455..15508, 15456..15491,
15519..15575, 15543..15563

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o12.tc	Method	TBLASTX:Cress
Start	15641	End	15991
GI	none	Score	432
Exons	15641..15988, 15734..15991		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o16.ts	Method	TBLASTX:Soybean
Start	15851	End	16841
GI	none	Score	187
Exons	15851..15961, 15851..15967, 15853..15969, 16675..16800, 16685..16840, 16686..16841		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o14.tm	Method	TBLASTX:Maize
Start	16322	End	16665
GI	none	Score	85
Exons	16322..16372, 16324..16401, 16325..16408, 16343..16405, 16362..16412, 16385..16510, 16398..16514, 16401..16508, 16402..16521, 16438..16560, 16510..16665, 16510..16662		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o18.tc	Method	TBLASTX:Cress
Start	16459	End	16791
GI	none	Score	51
Exons	16459..16497, 16464..16502, 16485..16556, 16486..16560, 16516..16560, 16609..16674, 16618..16671, 16619..16672, 16646..16783, 16650..16790, 16662..16790, 16675..16791		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o5.tm	Method	TBLASTX:Maize
Start	16720	End	19998
GI	none	Score	162
Exons	16720..16866, 16727..16867, 16731..16883, 16734..16871, 16801..16872, 16911..16991, 16911..16991, 16912..16992, 16913..16993, 16915..16992, 16974..17045, 16987..17040, 16988..17044, 17029..17109, 17042..17146, 17043..17132, 17124..17174, 17124..17171, 17187..17216, 17188..17217, 17212..17328, 17218..17334, 17220..17348, 17310..17423, 17323..17400, 17364..17420, 17370..17849, 17397..17849, 17398..17850, 17515..17850, 19771..19842, 19840..19998		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o16.tc	Method	TBLASTX:Cress
Start	17299	End	17567
GI	none	Score	45
Exons	17299..17328, 17322..17405, 17399..17560, 17399..17566, 17400..17567, 17400..17567		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o9.ts	Method	TBLASTX:Soybean
Start	17299	End	19923
GI	none	Score	45
Exons	17299..17328, 17381..17710, 17381..17713, 17382..17717, 17400..17717, 19771..19842, 19840..19923		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o8.tc	Method	TBLASTX:Cress
Start	17568	End	20082
GI	none	Score	56
Exons	17568..17639, 17634..17780, 19563..20009, 19563..20012, 19588..20013, 19962..20081, 19963..20082		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o11.ts	Method	TBLASTX:Soybean
Start	17739	End	20168
GI	none	Score	65
Exons	17739..17792, 17859..17975, 19923..20168, 19924..20139, 20073..20168		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o13.tm	Method	TBLASTX:Maize
Start	17859	End	20292
GI	none	Score	74
Exons	17859..17975, 17982..18104, 17990..18082, 19998..20291, 19999..20292, 19999..20292		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o2.tc	Method	TBLASTX:Cress
Start	17870	End	21126
GI	none	Score	1896
Exons	17870..19036, 17871..19073, 20086..20190, 20200..20331, 20502..20654, 20509..20655, 20668..21072, 20718..21068, 20842..21075, 21079..21123, 21097..21126		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-

Start	22934	End	23390
Name	OJ990427_26.9922.C9.o6.ts	Method	TBLASTX:Soybean
Start	17990	End	20656
GI	none	Score	83
Exons	17990..18103, 17991..18104, 18210..18257, 18260..18430, 18261..18431, 20171..20368, 20181..20654, 20181..20453, 20182..20655, 20396..20656, 20405..20458, 20502..20654, 20503..20655		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o1.tm	Method	TBLASTX:Maize
Start	18192	End	22154
GI	none	Score	225
Exons	18192..18431, 18260..18319, 18282..18407, 18359..18430, 18425..18838, 18438..18842, 18864..18908, 18959..19276, 18963..19277, 19095..19277, 19344..19424, 19428..19571, 19455..19553, 20293..20400, 20310..20405, 20311..20391, 20315..20395, 20370..20453, 20371..21903, 20381..20734, 20503..21915, 20691..21944, 21440..21940, 21938..21994, 21942..21995, 21949..21996, 22028..22054, 22038..22055, 22056..22154, 22057..22140		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o1.ts	Method	TBLASTX:Soybean
Start	18438	End	22172
GI	none	Score	415
Exons	18438..18842, 18737..18838, 18864..18908, 18959..19300, 18963..19277, 19344..19424, 19428..19571, 19464..19553, 19583..19675, 20656..21903, 20656..21903, 20691..21953, 21440..21952, 22026..22172, 22064..22105, 22075..22140		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o3.tc	Method	TBLASTX:Cress
Start	19073	End	21777
GI	none	Score	243
Exons	19073..19276, 19074..19277, 19344..19418, 19428..19559, 19455..19553, 21228..21608, 21229..21609, 21229..21639, 21231..21611, 21440..21616, 21610..21777, 21612..21776		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o19.tc	Method	TBLASTX:Cress
Start	20331	End	20501
GI	none	Score	209
Exons	20331..20453, 20332..20454, 20338..20499, 20342..20476, 20343..20501		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390

Name	OJ990427_26.9922.C9.o10.tc	Method	TBLASTX:Cress
Start	21819	End	22500
GI	none	Score	130
Exons	21819..21929, 21820..21903, 22044..22175, 22071..22094, 22072..22140, 22189..22389, 22194..22391, 22194..22388, 22195..22389, 22417..22500, 22419..22499, 22441..22500		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o14.tc	Method	TBLASTX:Cress
Start	22758	End	23390
GI	none	Score	85
Exons	22758..22829, 22758..22829, 22759..22830, 22762..22830, 22769..22834, 22961..23197, 22962..23381, 22962..23390, 23005..23388		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o11.gp	Method	AAT/GAP
Start	22934	End	23350
GI	LIB3431-040-P1-K2-C1	Score	706
Exons	22934..23350		
GI Descrip.	'114521/sp|P12084|ATPA_ORYSA 6.0e-53 ATP SYNTHASE ALPHA CHAIN >gi_67827_pir__PWRZA H+-transporting ATP synthase (EC 3.6.1.34) alpha chain - rice chloroplast >gi_11979_emb_CAA33993_ (X15901) ATPase alpha subunit [Oryza sativa] >gi_226696_prf__1603356X ATPase alpha [Oryza sativa]'		

Seq. No.	14356	Seq. ID	OJ990427_26.9922.C9
Gene No.	30695	Strand	-
Start	22934	End	23390
Name	OJ990427_26.9922.C9.o12.ts	Method	TBLASTX:Soybean
Start	22961	End	23390
GI	none	Score	163
Exons	22961..23194, 22961..23332, 22968..23390, 22968..23390		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30696	Strand	+
Start	1799	End	2344
Name	OJ990427_26.9922.C10.o3.gp	Method	AAT/GAP
Start	1799	End	2344
GI	2135_1.R1084	Score	1072
Exons	1799..2344		
GI Descrip.	'11957/emb|X15901|CHOSXX 1.0e-159 Rice complete chloroplast genome'		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30697	Strand	+
Start	2382	End	3347
Name	OJ990427_26.9922.C10.o4.gp	Method	AAT/GAP
Start	2382	End	3347
GI	2721_1.R1084	Score	1793
Exons	2382..3347		
GI Descrip.	'114622/sp|P12087|ATPF_ORYSA 1.0e-20 ATP SYNTHASE B CHAIN (SUBUNIT I) >gi_67929_pir__LWRZ1 H+-transporting ATP synthase		

(EC 3.6.1.34) chain I - rice chloroplast >gi_669080_emb_CAA33992_ (X15901) ATPase I subunit [Oryza sativa] >gi_226695_prf__1603356W ATPase I [Oryza sativa]'

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30698	Strand	-
Start	1	End	74
Name	OJ990427_26.9922.C10.o1.gp	Method	AAT/GAP
Start	1	End	74
GI	LIB3431-040-P1-K2-C1	Score	121
Exons	1..74		
GI Descrip.	'114521/sp|P12084|ATPA_ORYSA 6.0e-53 ATP SYNTHASE ALPHA CHAIN >gi_67827_pir__PWRZA H+-transporting ATP synthase (EC 3.6.1.34) alpha chain - rice chloroplast >gi_11979_emb_CAA33993_ (X15901) ATPase alpha subunit [Oryza sativa] >gi_226696_prf__1603356X ATPase alpha [Oryza sativa]'		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30699	Strand	-
Start	642	End	3347
Name	OJ990427_26.9922.C10.o2.tc	Method	TBLASTX:Cress
Start	89	End	375
GI	none	Score	403
Exons	89..373, 91..375		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30699	Strand	-
Start	642	End	3347
Name	OJ990427_26.9922.C10.o2.ts	Method	TBLASTX:Soybean
Start	146	End	333
GI	none	Score	160
Exons	146..283, 154..285, 155..283, 289..333, 290..331		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30699	Strand	-
Start	642	End	3347
Name	OJ990427_26.9922.C10.o1.ts	Method	TBLASTX:Soybean
Start	334	End	3347
GI	none	Score	78
Exons	334..1233, 335..403, 399..554, 401..1054, 681..1244, 1249..1284, 1304..1804, 1306..1800, 1840..1881, 1845..1874, 1963..1980, 2065..2136, 2070..2129, 2071..2139, 2159..2206, 2161..2208, 2166..2201, 2167..2208, 2227..2298, 2230..2274, 2235..2318, 2267..2320, 2305..2358, 2306..2359, 2308..2355, 2351..2422, 2365..2424, 2365..2418, 2366..2419, 2513..2686, 2515..2691, 2515..2691, 2516..2695, 3031..3072, 3124..3309, 3126..3305, 3126..3311, 3127..3312, 3315..3347		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30699	Strand	-
Start	642	End	3347
Name	OJ990427_26.9922.C10.o4.tc	Method	TBLASTX:Cress
Start	458	End	728
GI	none	Score	155
Exons	458..724, 466..723, 546..728		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10

Gene No.	30699	Strand	-
Start	642	End	3347
Name	OJ990427_26.9922.C10.o2.gp	Method	AAT/GAP
Start	642	End	1188
GI	5005311	Score	1039
Exons	642..1188		
GI Descrip.	114521/sp|P12084|ATPA_ORYSA 1.0e-78 ATP SYNTHASE ALPHA CHAIN >gi_67827_pir__PWRZA H+-transporting ATP synthase (EC 3.6.1.34) alpha chain - rice chloroplast >gi_11979_emb_CAA33993_ (X15901) ATPase alpha subunit [Oryza sativa] >gi_226696_prf__1603356X ATPase alpha [Oryza sativa]		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30699	Strand	-
Start	642	End	3347
Name	OJ990427_26.9922.C10.o1.tc	Method	TBLASTX:Cress
Start	733	End	2632
GI	none	Score	338
Exons	733..1230, 734..1054, 747..1244, 1297..1707, 1304..1708, 1334..1708, 2534..2632, 2534..2623, 2536..2631		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30699	Strand	-
Start	642	End	3347
Name	OJ990427_26.9922.C10.o3.tm	Method	TBLASTX:Maize
Start	875	End	1188
GI	none	Score	42
Exons	875..946, 877..1188, 1007..1051		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30699	Strand	-
Start	642	End	3347
Name	OJ990427_26.9922.C10.o1.tm	Method	TBLASTX:Maize
Start	1232	End	2898
GI	none	Score	62
Exons	1232..1294, 1240..1299, 1246..1299, 1294..1575, 1294..1815, 1304..1834, 1802..1888, 1837..2052, 1845..1991, 1891..2016, 1974..2075, 1990..2103, 1996..2106, 2059..2136, 2063..2143, 2067..2144, 2132..2227, 2136..2240, 2137..2241, 2137..2283, 2223..2354, 2223..2360, 2233..2361, 2245..2361, 2270..2362, 2362..2487, 2362..2475, 2364..2477, 2445..2741, 2446..2748, 2447..2749, 2447..2761, 2734..2898, 2774..2806, 2797..2898		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30699	Strand	-
Start	642	End	3347
Name	OJ990427_26.9922.C10.o1.tw	Method	TBLASTX:Wheat
Start	1371	End	1816
GI	none	Score	505
Exons	1371..1721, 1376..1726, 1386..1724, 1722..1802, 1730..1816, 1730..1798, 1731..1799, 1732..1815		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30699	Strand	-
Start	642	End	3347
Name	OJ990427_26.9922.C10.o2.tw	Method	TBLASTX:Wheat
Start	2038	End	2514

GI	none	Score	43
Exons	2038..2142, 2040..2075, 2047..2079, 2065..2151, 2069..2155, 2072..2152, 2152..2235, 2154..2234, 2154..2264, 2155..2235, 2238..2360, 2238..2360, 2239..2361, 2239..2361, 2351..2398, 2360..2398, 2395..2514, 2395..2514		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30699	Strand	-
Start	642	End	3347
Name	OJ990427_26.9922.C10.o2.tm	Method	TBLASTX:Maize
Start	2901	End	3347
GI	none	Score	106
Exons	2901..2984, 2901..2999, 2903..2986, 2983..3024, 2985..3017, 3002..3061, 3036..3308, 3037..3312, 3037..3312, 3315..3347		

Seq. No.	14357	Seq. ID	OJ990427_26.9922.C10
Gene No.	30699	Strand	-
Start	642	End	3347
Name	OJ990427_26.9922.C10.o3.tc	Method	TBLASTX:Cress
Start	3078	End	3312
GI	none	Score	178
Exons	3078..3308, 3126..3311, 3136..3312		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30700	Strand	+
Start	5413	End	5498
Name	OJ990427_26.9922.C11.o3.gp	Method	AAT/GAP
Start	5413	End	5498
GI	LIB3432-013-P1-K1-E3	Score	133
Exons	5413..5498		
GI Descrip.	'133446/sp|P12093|RPOD_ORYSA 3.0e-09 DNA-DIRECTED RNA POLYMERASE BETA" CHAIN >gi_66986_pir__RNRZC2 DNA-directed RNA polymerase (EC 2.7.7.6) beta''-2 chain - rice chloroplast >gi_11973_emb_CAA33988_ (X15901) RNA polymerase beta'' subunit-2 [Oryza sativa]'		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30701	Strand	+
Start	12721	End	12851
Name	OJ990427_26.9922.C11.o4.gp	Method	AAT/GAP
Start	12721	End	12851
GI	5607624	Score	215
Exons	12721..12851		
GI Descrip.	287391/dbj|D13111|RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30702	Strand	+
Start	19572	End	20029
Name	OJ990427_26.9922.C11.o8.gp	Method	AAT/GAP
Start	19572	End	20029
GI	45273_1.R1084	Score	841
Exons	19572..20029		
GI Descrip.	'1022811 4.0e-21 (U37703) ORF 62 [Hordeum vulgare]'		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30703	Strand	-

Start	493	End	863
Name	OJ990427_26.9922.C11.o1.gp	Method	AAT/GAP
Start	493	End	863
GI	LIB3477-011-P1-K1-C10	Score	734
Exons	493..863		
GI Descrip.	'114657/sp|P12083|ATPI_ORYSA 2.0e-34 ATP SYNTHASE A CHAIN PRECURSOR (SUBUNIT IV) >gi_67926_pir__LWRZ6 H+-transporting ATP synthase (EC 3.6.1.34) chain a - rice chloroplast >gi_11975_emb_CAA33990_ (X15901) ATPase a subunit [Oryza sativa] >gi_226693_prf__1603356U ATPase a [Oryza sativa]'		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30704	Strand	-
Start	904	End	1446
Name	OJ990427_26.9922.C11.o2.gp	Method	AAT/GAP
Start	904	End	1446
GI	42732_1.R1084	Score	1070
Exons	904..1446		
GI Descrip.	'114657/sp|P12083|ATPI_ORYSA 3.0e-76 ATP SYNTHASE A CHAIN PRECURSOR (SUBUNIT IV) >gi_67926_pir__LWRZ6 H+-transporting ATP synthase (EC 3.6.1.34) chain a - rice chloroplast >gi_11975_emb_CAA33990_ (X15901) ATPase a subunit [Oryza sativa] >gi_226693_prf__1603356U ATPase a [Oryza sativa]'		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30705	Strand	-
Start	14935	End	15079
Name	OJ990427_26.9922.C11.o5.gp	Method	AAT/GAP
Start	14935	End	15079
GI	LIB3432-021-P1-K1-A3	Score	208
Exons	14935..15079		
GI Descrip.	'11957/emb|X15901|CHOSXX 1.0e-52 Rice complete chloroplast genome'		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30706	Strand	-
Start	15153	End	15265
Name	OJ990427_26.9922.C11.o6.gp	Method	AAT/GAP
Start	15153	End	15265
GI	1036999	Score	191
Exons	15153..15265		
GI Descrip.	11957/emb|X15901|CHOSXX 2.0e-52 Rice complete chloroplast genome		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30707	Strand	-
Start	19007	End	19181
Name	OJ990427_26.9922.C11.o7.gp	Method	AAT/GAP
Start	19007	End	19181
GI	306_9.R1084	Score	240
Exons	19007..19181		
GI Descrip.	'287391/dbj|D13111|RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene'		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30708	Strand	-
Start	19911	End	20240
Name	OJ990427_26.9922.C11.o9.gp	Method	AAT/GAP

Start	19911	End	20240
GI	5607533	Score	481
Exons	19911..20240		
GI Descrip.	11957/emb|X15901|CHOSXX 1.0e-145 Rice complete chloroplast genome		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o21.tm	Method	TBLASTX:Maize
Start	18	End	242
GI	none	Score	188
Exons	18..98, 74..205, 75..242, 82..207, 198..227		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o10.tm	Method	TBLASTX:Maize
Start	329	End	672
GI	none	Score	37
Exons	329..352, 331..354, 356..397, 357..398, 385..555, 397..420, 401..538, 414..557, 429..563, 550..672, 550..666, 551..667, 555..671		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o5.ts	Method	TBLASTX:Soybean
Start	581	End	2287
GI	none	Score	824
Exons	581..676, 582..1331, 731..1330, 1562..2014, 1567..2283, 1572..2282, 1589..2287, 1596..2285		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o9.tm	Method	TBLASTX:Maize
Start	673	End	935
GI	none	Score	355
Exons	673..933, 673..900, 675..935		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o4.tc	Method	TBLASTX:Cress
Start	830	End	1342
GI	none	Score	577
Exons	830..1291, 831..1289, 855..1304, 1292..1342, 1294..1335		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o6.tm	Method	TBLASTX:Maize
Start	1794	End	2079
GI	none	Score	452
Exons	1794..2078, 1794..2078, 1795..2079		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o5.tc	Method	TBLASTX:Cress
Start	1798	End	2420
GI	none	Score	118
Exons	1798..1911, 1800..1913, 1908..2282, 1909..2283, 1911..2285, 2400..2420, 2402..2419		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o3.tm	Method	TBLASTX:Maize
Start	2079	End	2739
GI	none	Score	47
Exons	2079..2105, 2079..2105, 2100..2285, 2100..2282, 2119..2295, 2334..2417, 2335..2427, 2357..2419, 2389..2433, 2419..2484, 2419..2484, 2492..2533, 2492..2527, 2531..2569, 2538..2570, 2539..2571, 2566..2739, 2568..2738, 2569..2739		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o2.ts	Method	TBLASTX:Soybean
Start	2555	End	3630
GI	none	Score	62
Exons	2555..2662, 2615..2674, 2619..2687, 2619..2687, 2632..2694, 2673..2804, 2674..3465, 2677..2805, 2741..3466, 3089..3466, 3475..3609, 3475..3630		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o3.tw	Method	TBLASTX:Wheat
Start	2575	End	2983
GI	none	Score	493
Exons	2575..2940, 2575..2979, 2576..2983		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o1.tc	Method	TBLASTX:Cress
Start	2620	End	3765
GI	none	Score	58
Exons	2620..2676, 2621..2674, 2734..2937, 2734..3465, 2741..3466, 3478..3552, 3488..3544, 3547..3603, 3556..3600, 3665..3757, 3709..3765		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o8.tm	Method	TBLASTX:Maize
Start	2740	End	3034
GI	none	Score	396
Exons	2740..2997, 2741..2998, 2741..2998, 2945..3034, 2979..3026		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11

Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o19.tm	Method	TBLASTX:Maize
Start	3222	End	3360
GI	none	Score	181
Exons	3222..3359, 3223..3360, 3223..3360		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o12.tc	Method	TBLASTX:Cress
Start	3835	End	4542
GI	none	Score	95
Exons	3835..4170, 3836..3979, 3844..3981, 4039..4170, 4067..4171, 4137..4397, 4165..4431, 4184..4405, 4419..4508, 4423..4500, 4507..4542		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o1.tw	Method	TBLASTX:Wheat
Start	3999	End	4618
GI	none	Score	572
Exons	3999..4418, 4000..4419, 4001..4420, 4004..4420, 4321..4581, 4413..4574, 4489..4575, 4547..4618, 4569..4607		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o1.tm	Method	TBLASTX:Maize
Start	4072	End	4883
GI	none	Score	989
Exons	4072..4818, 4073..4792, 4484..4819, 4485..4850, 4486..4818, 4845..4883		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o1.ts	Method	TBLASTX:Soybean
Start	4440	End	7403
GI	none	Score	181
Exons	4440..4715, 4505..4789, 4507..4788, 5215..5385, 5216..5344, 5217..5360, 5293..5496, 5354..5497, 5355..5504, 5356..5511, 5451..5507, 5504..6250, 5510..6040, 5512..6264, 5659..6243, 6251..6400, 6271..6399, 6276..6401, 6395..7102, 6397..7104, 6744..7103, 7102..7134, 7152..7196, 7153..7200, 7325..7399, 7325..7396, 7329..7403		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o18.tc	Method	TBLASTX:Cress
Start	4543	End	4841
GI	none	Score	180
Exons	4543..4818, 4544..4789, 4544..4819, 4546..4818, 4734..4841		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11

Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o13.tm	Method	TBLASTX:Maize
Start	4884	End	5245
GI	none	Score	71
Exons	4884..5024, 4884..4946, 4885..4923, 4887..5042, 4893..4979, 4902..5066, 4902..5066, 4903..4980, 4905..5060, 4905..5039, 4930..4974, 4932..4982, 4932..4997, 4939..4983, 4971..5003, 4987..5031, 5001..5024, 5010..5108, 5010..5108, 5049..5156, 5049..5135, 5061..5117, 5061..5114, 5061..5108, 5061..5108, 5070..5156, 5088..5189, 5089..5163, 5092..5193, 5092..5202, 5098..5238, 5098..5193, 5100..5198, 5101..5160, 5122..5229, 5123..5236, 5123..5245, 5147..5194, 5152..5226, 5152..5208, 5153..5224, 5178..5225		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o13.tc	Method	TBLASTX:Cress
Start	5225	End	5740
GI	none	Score	169
Exons	5225..5371, 5227..5481, 5234..5416, 5503..5739, 5518..5739, 5522..5740, 5543..5740		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o7.tc	Method	TBLASTX:Cress
Start	5755	End	6171
GI	none	Score	376
Exons	5755..6165, 5757..6164, 5759..6166, 5761..6171		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o2.tw	Method	TBLASTX:Wheat
Start	5871	End	6316
GI	none	Score	575
Exons	5871..6314, 5872..6315, 5872..6315, 5873..6316		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o6.tc	Method	TBLASTX:Cress
Start	6615	End	7009
GI	none	Score	75
Exons	6615..6686, 6616..7008, 6617..7009		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o14.tm	Method	TBLASTX:Maize
Start	6904	End	7400
GI	none	Score	218
Exons	6904..7104, 6905..7102, 7102..7134, 7152..7196, 7153..7200, 7295..7399, 7298..7399, 7299..7400		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o22.tc	Method	TBLASTX:Cress
Start	7012	End	7364
GI	none	Score	122
Exons	7012..7101, 7013..7099, 7140..7187, 7141..7191, 7299..7364, 7307..7363		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o2.tc	Method	TBLASTX:Cress
Start	7376	End	8120
GI	none	Score	227
Exons	7376..7612, 7377..7610, 7378..7626, 7673..8119, 7680..8120		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o12.tm	Method	TBLASTX:Maize
Start	7402	End	7735
GI	none	Score	215
Exons	7402..7638, 7402..7608, 7403..7621, 7491..7628, 7678..7734, 7679..7735, 7680..7733		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o8.ts	Method	TBLASTX:Soybean
Start	7404	End	7846
GI	none	Score	201
Exons	7404..7610, 7405..7608, 7406..7621, 7408..7638, 7491..7628, 7678..7815, 7679..7846, 7680..7811, 7681..7830		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o8.tc	Method	TBLASTX:Cress
Start	8130	End	8553
GI	none	Score	375
Exons	8130..8399, 8131..8469, 8132..8536, 8132..8497, 8448..8552, 8506..8553		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o12.ts	Method	TBLASTX:Soybean
Start	8363	End	8816
GI	none	Score	44
Exons	8363..8407, 8366..8404, 8403..8642, 8408..8620, 8448..8633, 8555..8659, 8630..8755, 8681..8755, 8756..8785, 8757..8816		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o17.tc	Method	TBLASTX:Cress

Start	8642	End	8923
GI	none	Score	39
Exons	8642..8923, 8647..8733, 8697..8915, 8770..8916		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o22.tm	Method	TBLASTX:Maize
Start	8828	End	8997
GI	none	Score	44
Exons	8828..8863, 8830..8871, 8832..8873, 8880..8948, 8882..8947, 8884..8949, 8942..8995, 8948..8989, 8950..8997		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o3.ts	Method	TBLASTX:Soybean
Start	8901	End	9717
GI	none	Score	507
Exons	8901..9356, 8902..9315, 8906..9358, 8906..9355, 9256..9375, 9356..9529, 9357..9644, 9384..9716, 9505..9717		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o10.tc	Method	TBLASTX:Cress
Start	9218	End	9617
GI	none	Score	155
Exons	9218..9349, 9219..9347, 9356..9520, 9378..9611, 9378..9617		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o16.tc	Method	TBLASTX:Cress
Start	9630	End	10187
GI	none	Score	63
Exons	9630..9830, 9631..9738, 9900..10187, 10003..10149		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o17.tm	Method	TBLASTX:Maize
Start	9639	End	10242
GI	none	Score	97
Exons	9639..9830, 9900..10187, 10003..10242		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o9.ts	Method	TBLASTX:Soybean
Start	10020	End	10435
GI	none	Score	50
Exons	10020..10055, 10021..10056, 10043..10186, 10053..10187, 10057..10191, 10063..10191, 10206..10430, 10208..10435, 10210..10428		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11

Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o7.ts	Method	TBLASTX:Soybean
Start	10635	End	11179
GI	none	Score	101
Exons	10635..10808, 10638..10802, 10657..10809, 10675..10809, 10676..10813, 10824..10862, 10833..11018, 10855..11022, 10855..11037, 10989..11156, 10990..11169, 10999..11169, 11000..11179, 11019..11171		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o15.tc	Method	TBLASTX:Cress
Start	10893	End	11095
GI	none	Score	156
Exons	10893..11087, 10893..11087, 10894..11088, 10894..11088, 10895..11095		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o23.tc	Method	TBLASTX:Cress
Start	11153	End	11400
GI	none	Score	36
Exons	11153..11227, 11154..11195, 11226..11258, 11259..11348, 11269..11346, 11307..11348, 11343..11378, 11349..11390, 11350..11400		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o4.ts	Method	TBLASTX:Soybean
Start	11276	End	12107
GI	none	Score	242
Exons	11276..11494, 11277..11507, 11278..11532, 11278..11520, 11536..11679, 11546..11701, 11553..11702, 11697..11843, 11702..12103, 11703..12107, 11833..12105		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o14.tc	Method	TBLASTX:Cress
Start	11421	End	11787
GI	none	Score	72
Exons	11421..11507, 11423..11479, 11424..11513, 11425..11532, 11425..11532, 11536..11679, 11536..11697, 11540..11698, 11541..11723, 11553..11702, 11663..11779, 11697..11780, 11703..11780, 11707..11787, 11740..11787		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o9.tc	Method	TBLASTX:Cress
Start	11788	End	12149
GI	none	Score	342
Exons	11788..12147, 11789..12133, 11790..12149, 11833..12147		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o11.tm	Method	TBLASTX:Maize
Start	12142	End	12335
GI	none	Score	285
Exons	12142..12333, 12145..12333, 12149..12334, 12150..12335		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o11.tc	Method	TBLASTX:Cress
Start	12229	End	12799
GI	none	Score	128
Exons	12229..12336, 12229..12336, 12231..12347, 12236..12346, 12348..12614, 12349..12612, 12350..12622, 12351..12614, 12672..12746, 12673..12747, 12764..12799, 12765..12794		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o5.tm	Method	TBLASTX:Maize
Start	12336	End	12734
GI	none	Score	538
Exons	12336..12734, 12337..12732		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o10.ts	Method	TBLASTX:Soybean
Start	12349	End	12752
GI	none	Score	287
Exons	12349..12642, 12351..12644, 12638..12733, 12648..12752, 12661..12735		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o14.ts	Method	TBLASTX:Soybean
Start	14152	End	14289
GI	none	Score	191
Exons	14152..14274, 14161..14289		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o6.tw	Method	TBLASTX:Wheat
Start	14361	End	14945
GI	none	Score	75
Exons	14361..14408, 14369..14410, 14503..14544, 14522..14617, 14535..14612, 14709..14840, 14721..14801, 14772..14852, 14776..14841, 14853..14876, 14855..14875, 14873..14944, 14874..14945, 14896..14943, 14898..14945		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-

Start	20347	End	21027
Name	OJ990427_26.9922.C11.o4.tm	Method	TBLASTX:Maize
Start	14658	End	15230
GI	none	Score	52
Exons	14658..14747, 14660..14707, 14664..14753, 14736..14780, 14737..14781, 14739..14783, 14775..14984, 14775..14978, 14776..15003, 14777..14989, 14892..14945, 14896..14943, 14974..15009, 14980..15153, 14981..15157, 15142..15213, 15144..15194, 15147..15230, 15187..15228		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o7.tw	Method	TBLASTX:Wheat
Start	14998	End	15190
GI	none	Score	155
Exons	14998..15141, 15001..15153, 15143..15190		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o21.tc	Method	TBLASTX:Cress
Start	15001	End	15304
GI	none	Score	150
Exons	15001..15141, 15007..15153, 15032..15151, 15142..15189, 15143..15190, 15257..15304		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o13.ts	Method	TBLASTX:Soybean
Start	15022	End	15321
GI	none	Score	141
Exons	15022..15150, 15034..15144, 15161..15190, 15229..15318, 15232..15321		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o16.tm	Method	TBLASTX:Maize
Start	15816	End	16082
GI	none	Score	45
Exons	15816..15854, 15892..16059, 15899..16081, 15900..16082, 15918..16082		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o20.tc	Method	TBLASTX:Cress
Start	15951	End	16088
GI	none	Score	201
Exons	15951..16088, 15951..16088		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o18.tm	Method	TBLASTX:Maize

Start	16943	End	17146
GI	none	Score	172
Exons	16943..17086, 16953..17078, 17071..17145, 17072..17146, 17073..17144		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o15.tm	Method	TBLASTX:Maize
Start	18081	End	18353
GI	none	Score	123
Exons	18081..18164, 18082..18165, 18083..18166, 18114..18293, 18155..18295, 18158..18295, 18199..18303, 18263..18352, 18285..18353		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o20.tm	Method	TBLASTX:Maize
Start	18827	End	19194
GI	none	Score	64
Exons	18827..18886, 18882..19037, 18885..19040, 18967..19044, 19168..19194		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o7.tm	Method	TBLASTX:Maize
Start	19592	End	20221
GI	none	Score	34
Exons	19592..19633, 19607..19651, 19608..19646, 19662..19862, 19664..19867, 19665..19862, 19827..19979, 19859..19969, 19917..20015, 19934..20020, 19936..20034, 19936..20019, 19937..20020, 20123..20161, 20123..20161, 20132..20221, 20173..20220		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o11.ts	Method	TBLASTX:Soybean
Start	19692	End	20014
GI	none	Score	137
Exons	19692..19862, 19696..19860, 19700..19876, 19704..19862, 19858..19926, 19859..19915, 19967..20014		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o19.tc	Method	TBLASTX:Cress
Start	19692	End	20220
GI	none	Score	158
Exons	19692..19862, 19697..19876, 19703..19861, 19704..19862, 19858..19914, 19859..19915, 19859..19915, 19861..19920, 19965..20012, 19983..20012, 20073..20141, 20078..20110, 20182..20220		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11

Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o10.gp	Method	AAT/GAP
Start	20347	End	21027
GI	7587_1.R1084	Score	1298
Exons	20347..21027		
GI Descrip.	'131283/sp|P12158|PSBC_ORYSA 2.0e-85 PHOTOSYSTEM II 44 KD REACTION CENTER PROTEIN (P6 PROTEIN) (CP43) >gi_72710_pir__F2RZ44 photosystem II chlorophyll a-binding protein psbC - rice chloroplast >gi_11965_emb_CAA34014_ (X15901) PSII 43kDa protein [Oryza sativa]'		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o4.tw	Method	TBLASTX:Wheat
Start	20395	End	20808
GI	none	Score	98
Exons	20395..20463, 20396..20464, 20406..20489, 20453..20806, 20458..20808, 20486..20806		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o2.tm	Method	TBLASTX:Maize
Start	20458	End	20947
GI	none	Score	43
Exons	20458..20490, 20486..20947, 20489..20929		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o6.ts	Method	TBLASTX:Soybean
Start	20461	End	21027
GI	none	Score	774
Exons	20461..21027, 20498..21025		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o3.tc	Method	TBLASTX:Cress
Start	20492	End	21027
GI	none	Score	759
Exons	20492..20932, 20494..21027, 20495..21025		

Seq. No.	14358	Seq. ID	OJ990427_26.9922.C11
Gene No.	30709	Strand	-
Start	20347	End	21027
Name	OJ990427_26.9922.C11.o5.tw	Method	TBLASTX:Wheat
Start	20809	End	21027
GI	none	Score	327
Exons	20809..21027, 20810..21025		

Seq. No.	14359	Seq. ID	OJ990427_26.9922.C12
Gene No.	30710	Strand	
Start	462	End	741
Name	OJ990427_26.9922.C12.o1.ts	Method	TBLASTX:Soybean

Start	462	End	739
GI	none	Score	158
Exons	462..713, 466..711, 689..739, 706..738		

Seq. No.	14359	Seq. ID	OJ990427_26.9922.C12
Gene No.	30710	Strand	
Start	462	End	741
Name	OJ990427_26.9922.C12.o1.tw	Method	TBLASTX:Wheat
Start	523	End	741
GI	none	Score	317
Exons	523..741, 525..740		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30711	Strand	-
Start	1490	End	1758
Name	OJ990427_26.9922.C13.o1.gp	Method	AAT/GAP
Start	1490	End	1758
GI	40596_1.R1084	Score	450
Exons	1490..1758		
GI Descrip.	'11957/emb|X15901|CHOSXX 1.0e-104 Rice complete chloroplast genome'		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30712	Strand	-
Start	2352	End	3598
Name	OJ990427_26.9922.C13.o2.gp	Method	AAT/GAP
Start	2352	End	3598
GI	uC-osflcyp086a01a1	Score	851
Exons	2352..2542, 3353..3598		
GI Descrip.	'133806/sp|P25875|RR16_HORVU 5.0e-37 CHLOROPLAST 30S RIBOSOMAL PROTEIN S16 >gi_282999_pir__S28766 ribosomal protein S16 - barley chloroplast >gi_11603_emb_CAA36973_ (X52765) ribosomal protein rps16 [Hordeum vulgare]'		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30713	Strand	-
Start	3679	End	4129
Name	OJ990427_26.9922.C13.o2.ts	Method	TBLASTX:Soybean
Start	27	End	474
GI	none	Score	57
Exons	27..116, 28..276, 29..238, 168..287, 281..427, 291..434, 298..435, 325..468, 418..474		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30713	Strand	-
Start	3679	End	4129
Name	OJ990427_26.9922.C13.o1.tc	Method	TBLASTX:Cress
Start	203	End	684
GI	none	Score	78
Exons	203..358, 204..365, 353..421, 356..421, 363..422, 437..670, 440..679, 492..683, 505..684, 613..684		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30713	Strand	-
Start	3679	End	4129
Name	OJ990427_26.9922.C13.o1.tw	Method	TBLASTX:Wheat
Start	242	End	622

GI	none	Score	387
Exons	242..622, 243..521, 245..622		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30713	Strand	-
Start	3679	End	4129
Name	OJ990427_26.9922.C13.o1.ts	Method	TBLASTX:Soybean
Start	497	End	1043
GI	none	Score	97
Exons	497..694, 506..673, 511..687, 701..775, 708..761, 764..895, 766..897, 790..900, 912..1043		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30713	Strand	-
Start	3679	End	4129
Name	OJ990427_26.9922.C13.o6.tc	Method	TBLASTX:Cress
Start	690	End	1043
GI	none	Score	49
Exons	690..755, 701..769, 743..895, 771..893, 790..900, 791..898, 928..1041, 929..1042, 930..1043, 930..1043		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30713	Strand	-
Start	3679	End	4129
Name	OJ990427_26.9922.C13.o2.tc	Method	TBLASTX:Cress
Start	1230	End	1777
GI	none	Score	49
Exons	1230..1280, 1235..1282, 1242..1283, 1284..1325, 1284..1322, 1285..1329, 1295..1330, 1414..1506, 1423..1506, 1424..1510, 1430..1522, 1434..1547, 1529..1573, 1598..1639, 1599..1637, 1613..1639, 1626..1769, 1628..1777, 1628..1768		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30713	Strand	-
Start	3679	End	4129
Name	OJ990427_26.9922.C13.o4.tm	Method	TBLASTX:Maize
Start	1482	End	1742
GI	none	Score	122
Exons	1482..1505, 1494..1571, 1502..1597, 1542..1742, 1562..1741, 1590..1742		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30713	Strand	-
Start	3679	End	4129
Name	OJ990427_26.9922.C13.o6.tm	Method	TBLASTX:Maize
Start	1743	End	2117
GI	none	Score	49
Exons	1743..1784, 1743..1784, 1744..1785, 1745..1786, 1782..1841, 1782..1823, 1783..1848, 1837..1875, 1840..1878, 1844..1906, 1851..1889, 1862..1939, 1863..1943, 1879..1938, 1937..1981, 1961..2059, 1971..2066, 1972..2067, 2008..2067, 2064..2117		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30713	Strand	-
Start	3679	End	4129
Name	OJ990427_26.9922.C13.o3.ts	Method	TBLASTX:Soybean
Start	2346	End	3469

GI	none	Score	251
Exons	2346..2585, 2347..2574, 2547..2618, 2552..2644, 2556..2654, 2814..2861, 2859..2909, 2867..2908, 2912..2944, 3062..3169, 3083..3184, 3187..3225, 3189..3227, 3238..3300, 3247..3300, 3275..3334, 3289..3339, 3331..3405, 3331..3420, 3445..3465, 3446..3469		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30713	Strand	-
Start	3679	End	4129
Name	OJ990427_26.9922.C13.o4.tc	Method	TBLASTX:Cress
Start	2421	End	2608
GI	none	Score	134
Exons	2421..2606, 2421..2600, 2422..2607, 2513..2608		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30713	Strand	-
Start	3679	End	4129
Name	OJ990427_26.9922.C13.o2.tm	Method	TBLASTX:Maize
Start	2949	End	3578
GI	none	Score	100
Exons	2949..3029, 2949..3044, 2950..3033, 3036..3179, 3053..3085, 3056..3223, 3089..3226, 3103..3237, 3199..3477, 3211..3471, 3225..3479, 3490..3531, 3501..3533, 3528..3575, 3534..3578		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30713	Strand	-
Start	3679	End	4129
Name	OJ990427_26.9922.C13.o3.gp	Method	AAT/GAP
Start	3679	End	4129
GI	uC-osflcyp086a01b1	Score	902
Exons	3679..4129		
GI Descrip.	'11957/emb|X15901|CHOSXX 1.0e-135 Rice complete chloroplast genome'		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30714	Strand	
Start	4649	End	5695
Name	OJ990427_26.9922.C13.o1.tm	Method	TBLASTX:Maize
Start	4649	End	5214
GI	none	Score	198
Exons	4649..4777, 4656..4802, 4657..4806, 4795..5109, 4800..5108, 4922..5113, 5112..5177, 5113..5175, 5114..5176, 5115..5177, 5163..5213, 5163..5213, 5179..5214		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30714	Strand	
Start	4649	End	5695
Name	OJ990427_26.9922.C13.o3.tw	Method	TBLASTX:Wheat
Start	4685	End	4958
GI	none	Score	391
Exons	4685..4957, 4686..4958, 4686..4958		

Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30714	Strand	
Start	4649	End	5695
Name	OJ990427_26.9922.C13.o4.ts	Method	TBLASTX:Soybean

Start	4827	End	5695
GI	none	Score	279
Exons	4827..5078, 4856..5062, 5429..5557, 5430..5558, 5430..5555, 5431..5559, 5600..5695		
Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30714	Strand	
Start	4649	End	5695
Name	OJ990427_26.9922.C13.o3.tc	Method	TBLASTX:Cress
Start	4853	End	5085
GI	none	Score	237
Exons	4853..5065, 4860..5084, 4867..5085, 4869..5084		
Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30714	Strand	
Start	4649	End	5695
Name	OJ990427_26.9922.C13.o5.tm	Method	TBLASTX:Maize
Start	5214	End	5422
GI	none	Score	90
Exons	5214..5282, 5215..5286, 5283..5420, 5285..5422, 5285..5422		
Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30714	Strand	
Start	4649	End	5695
Name	OJ990427_26.9922.C13.o5.tc	Method	TBLASTX:Cress
Start	5415	End	5695
GI	none	Score	215
Exons	5415..5558, 5428..5571, 5428..5571, 5669..5695, 5669..5695		
Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30715	Strand	
Start	5767	End	6437
Name	OJ990427_26.9922.C13.o3.tm	Method	TBLASTX:Maize
Start	5767	End	6195
GI	none	Score	95
Exons	5767..5832, 5768..5833, 5769..5834, 5818..5877, 5819..5875, 5823..5897, 5824..5928, 5903..5932, 5933..6049, 5934..6071, 5951..6073, 6029..6091, 6029..6091, 6098..6193, 6098..6178, 6100..6195, 6100..6195		
Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30715	Strand	
Start	5767	End	6437
Name	OJ990427_26.9922.C13.o2.tw	Method	TBLASTX:Wheat
Start	5872	End	6379
GI	none	Score	57
Exons	5872..5931, 5903..5932, 5921..6013, 5926..6012, 5934..6014, 5934..6017, 5988..6059, 6006..6047, 6008..6097, 6008..6058, 6017..6091, 6033..6104, 6096..6221, 6098..6211, 6190..6378, 6208..6363, 6209..6379		
Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30715	Strand	
Start	5767	End	6437
Name	OJ990427_26.9922.C13.o7.tm	Method	TBLASTX:Maize
Start	6197	End	6437
GI	none	Score	154

Exons	6197..6334, 6208..6333, 6208..6336, 6338..6382, 6341..6391, 6393..6437		
Seq. No.	14360	Seq. ID	OJ990427_26.9922.C13
Gene No.	30716	Strand	
Start	6384	End	6619
Name	OJ990427_26.9922.C13.o4.tw	Method	TBLASTX:Wheat
Start	6384	End	6619
GI	none	Score	59
Exons	6384..6449, 6390..6446, 6392..6448, 6395..6460, 6436..6471, 6449..6478, 6481..6528, 6485..6529, 6486..6530, 6517..6543, 6522..6557, 6528..6617, 6529..6618, 6530..6619		
Seq. No.	14361	Seq. ID	OJ990427_26.9922.C14
Gene No.	30717	Strand	-
Start	1	End	100
Name	OJ990427_26.9922.C14.o1.gp	Method	AAT/GAP
Start	1	End	100
GI	LIB3431-048-P1-K1-G4	Score	193
Exons	1..100		
GI Descrip.	'671740/emb|CAA59218| 6.0e-41 (X84730) ribulose-bisphosphate carboxylase [synthetic construct]'		
Seq. No.	14361	Seq. ID	OJ990427_26.9922.C14
Gene No.	30718	Strand	
Start	1	End	94
Name	OJ990427_26.9922.C14.o1.tw	Method	TBLASTX:Wheat
Start	1	End	94
GI	none	Score	160
Exons	1..93, 2..94		
Seq. No.	14362	Seq. ID	OJ990427_26.9922.C15
Gene No.	30719	Strand	
Start	706	End	1196
Name	OJ990427_26.9922.C15.o1.tc	Method	TBLASTX:Cress
Start	706	End	1196
GI	none	Score	222
Exons	706..963, 707..994, 950..1192, 950..1189, 951..1196		
Seq. No.	14362	Seq. ID	OJ990427_26.9922.C15
Gene No.	30719	Strand	
Start	706	End	1196
Name	OJ990427_26.9922.C15.o1.ts	Method	TBLASTX:Soybean
Start	793	End	1034
GI	none	Score	190
Exons	793..963, 794..994, 855..968, 950..1030, 951..1034, 952..1032		
Seq. No.	14362	Seq. ID	OJ990427_26.9922.C15
Gene No.	30720	Strand	
Start	1275	End	1658
Name	OJ990427_26.9922.C15.o2.tc	Method	TBLASTX:Cress
Start	1275	End	1658
GI	none	Score	327
Exons	1275..1640, 1276..1569, 1294..1569, 1322..1570, 1572..1658, 1572..1658		
Seq. No.	14362	Seq. ID	OJ990427_26.9922.C15

Gene No.	30720	Strand	
Start	1275	End	1658
Name	OJ990427_26.9922.C15.o2.ts	Method	TBLASTX:Soybean
Start	1401	End	1658
GI	none	Score	155
Exons	1401..1640, 1402..1569, 1572..1658, 1572..1658		

Seq. No.	14363	Seq. ID	OJ990427_26.9922.C16
Gene No.	30721	Strand	
Start	639	End	930
Name	OJ990427_26.9922.C16.o1.ts	Method	TBLASTX:Soybean
Start	639	End	930
GI	none	Score	72
Exons	639..728, 640..675, 726..926, 733..927, 736..930		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30722	Strand	+
Start	7781	End	8002
Name	OJ990427_26.9922.C17.o2.gp	Method	AAT/GAP
Start	7781	End	8002
GI	LIB3431-005-P1-N1-A5	Score	380
Exons	7781..8002		
GI Descrip.	'131251/sp|P12094|PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir__FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_ (X15901) PSII 32kDa protein [Oryza sativa] >gi_343212 (M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf__1503143A psbA gene [Oryza sativa] >gi_226406_prf__15'		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o5.ts	Method	TBLASTX:Soybean
Start	1	End	249
GI	none	Score	58
Exons	1..45, 1..123, 2..247, 3..248, 165..248, 166..249		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o6.tc	Method	TBLASTX:Cress
Start	20	End	250
GI	none	Score	374
Exons	20..250, 21..248, 68..250		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o2.tm	Method	TBLASTX:Maize
Start	394	End	845
GI	none	Score	585
Exons	394..843, 421..843, 690..845		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980

Name	OJ990427_26.9922.C17.o3.tc	Method	TBLASTX:Cress
Start	466	End	924
GI	none	Score	349
Exons	466..924, 569..922		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o7.ts	Method	TBLASTX:Soybean
Start	511	End	765
GI	none	Score	219
Exons	511..747, 514..765, 519..749, 575..763		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o7.tc	Method	TBLASTX:Cress
Start	976	End	1308
GI	none	Score	130
Exons	976..1149, 977..1156, 1021..1215, 1043..1156, 1153..1305, 1156..1308, 1158..1307		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o4.ts	Method	TBLASTX:Soybean
Start	1045	End	1545
GI	none	Score	82
Exons	1045..1155, 1045..1215, 1156..1545, 1157..1384, 1158..1544		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o3.tm	Method	TBLASTX:Maize
Start	1152	End	1592
GI	none	Score	63
Exons	1152..1304, 1398..1592, 1399..1536		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o5.tc	Method	TBLASTX:Cress
Start	1310	End	1796
GI	none	Score	125
Exons	1310..1540, 1311..1676, 1312..1674, 1675..1788, 1676..1789, 1676..1789, 1683..1796, 1722..1796		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o9.ts	Method	TBLASTX:Soybean
Start	1546	End	1821
GI	none	Score	291
Exons	1546..1821, 1547..1642, 1578..1814		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-

Start	5628	End	7980
Name	OJ990427_26.9922.C17.o3.ts	Method	TBLASTX:Soybean
Start	1822	End	3324
GI	none	Score	106
Exons	1822..1965, 1828..1962, 1839..1964, 1964..2005, 1965..2009, 2047..2325, 2057..2338, 2058..2360, 2398..2451, 2401..2445, 2478..2513, 2771..3112, 2772..3113, 2890..3123, 3253..3324		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o4.tc	Method	TBLASTX:Cress
Start	1822	End	2339
GI	none	Score	158
Exons	1822..1965, 1824..1964, 1965..1982, 2052..2141, 2063..2140, 2135..2338, 2136..2339, 2136..2339		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o1.tm	Method	TBLASTX:Maize
Start	2129	End	4421
GI	none	Score	610
Exons	2129..2188, 2159..2575, 2160..2576, 2160..2576, 4368..4421		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o1.tw	Method	TBLASTX:Wheat
Start	2346	End	2582
GI	none	Score	65
Exons	2346..2390, 2346..2390, 2389..2442, 2390..2443, 2394..2444, 2400..2447, 2456..2524, 2459..2524, 2531..2581, 2531..2581, 2535..2582		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o8.tc	Method	TBLASTX:Cress
Start	2789	End	3114
GI	none	Score	309
Exons	2789..3112, 2789..2824, 2790..3113, 2884..3114, 2890..3114		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o9.tc	Method	TBLASTX:Cress
Start	3259	End	3484
GI	none	Score	187
Exons	3259..3483, 3280..3483, 3287..3484		

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o8.ts	Method	TBLASTX:Soybean
Start	3432	End	3693
GI	none	Score	81

Exons	3432..3593, 3433..3615, 3434..3601, 3598..3693, 3599..3691		
Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o6.ts	Method	TBLASTX:Soybean
Start	4152	End	4401
GI	none	Score	128
Exons	4152..4277, 4152..4277, 4154..4285, 4163..4285, 4276..4401, 4278..4400		
Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o10.ts	Method	TBLASTX:Soybean
Start	4402	End	4595
GI	none	Score	201
Exons	4402..4593, 4404..4595, 4404..4592		
Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o1.tc	Method	TBLASTX:Cress
Start	4504	End	6909
GI	none	Score	137
Exons	4504..4632, 4504..4623, 4506..4679, 4697..4897, 4700..4891, 4735..4932, 4884..5102, 4889..5227, 4890..5234, 4891..5229, 4891..5235, 5157..5237, 6205..6429, 6224..6631, 6225..6683, 6685..6786, 6687..6908, 6687..6908, 6766..6909		
Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o2.ts	Method	TBLASTX:Soybean
Start	4692	End	6222
GI	none	Score	306
Exons	4692..5114, 4694..5236, 4694..5314, 4717..5328, 4735..5334, 5270..5329, 5409..5444, 5445..5480, 5496..5534, 5692..5775, 5698..5772, 5867..5935, 5869..5901, 5967..5999, 5969..6004, 6052..6114, 6053..6091, 6099..6149, 6100..6222		
Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o1.gp	Method	AAT/GAP
Start	5628	End	5830
GI	6012822	Score	337
Exons	5628..5830		
GI Descrip.	11957/emb|X15901|CHOSXX 1.0e-52 Rice complete chloroplast genome		
Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o1.ts	Method	TBLASTX:Soybean
Start	6300	End	7980
GI	none	Score	405
Exons	6300..6683, 6302..6631, 6373..6678, 6679..6786, 6689..6784,		

6690..7967, 6718..7980

Seq. No.	14364	Seq. ID	OJ990427_26.9922.C17
Gene No.	30723	Strand	-
Start	5628	End	7980
Name	OJ990427_26.9922.C17.o2.tc	Method	TBLASTX:Cress
Start	7020	End	7475
GI	none	Score	138
Exons	7020..7175, 7023..7400, 7027..7401, 7411..7473, 7413..7475		

Seq. No.	14365	Seq. ID	OJ990427_26.9922.C18
Gene No.	30724	Strand	+
Start	1	End	372
Name	OJ990427_26.9922.C18.o1.gp	Method	AAT/GAP
Start	1	End	372
GI	LIB3431-005-P1-N1-A5	Score	712
Exons	1..372		
GI Descrip.	'131251/sp|P12094|PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir__FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_ (X15901) PSII 32kDa protein [Oryza sativa] >gi_343212 (M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf__1503143A psbA gene [Oryza sativa] >gi_226406_prf__15'		

Seq. No.	14365	Seq. ID	OJ990427_26.9922.C18
Gene No.	30725	Strand	-
Start	519	End	953
Name	OJ990427_26.9922.C18.o1.ts	Method	TBLASTX:Soybean
Start	1	End	562
GI	none	Score	243
Exons	1..180, 2..181, 319..543, 320..550, 326..562		

Seq. No.	14365	Seq. ID	OJ990427_26.9922.C18
Gene No.	30725	Strand	-
Start	519	End	953
Name	OJ990427_26.9922.C18.o4.tm	Method	TBLASTX:Maize
Start	138	End	422
GI	none	Score	53
Exons	138..179, 139..195, 139..180, 140..184, 191..217, 192..218, 213..278, 221..259, 230..295, 235..300, 292..384, 306..422, 311..421, 312..422		

Seq. No.	14365	Seq. ID	OJ990427_26.9922.C18
Gene No.	30725	Strand	-
Start	519	End	953
Name	OJ990427_26.9922.C18.o2.gp	Method	AAT/GAP
Start	519	End	953
GI	5886_1.R1084	Score	840
Exons	519..953		
GI Descrip.	'11957/emb|X15901|CHOSXX 0.0e+00 Rice complete chloroplast genome'		

Seq. No.	14365	Seq. ID	OJ990427_26.9922.C18
Gene No.	30725	Strand	-
Start	519	End	953
Name	OJ990427_26.9922.C18.o3.tm	Method	TBLASTX:Maize

Start	633	End	903
GI	none	Score	107
Exons	633..692, 633..692, 634..693, 681..902, 682..903, 734..784, 734..781, 790..903		

Seq. No.	14365	Seq. ID	OJ990427_26.9922.C18
Gene No.	30726	Strand	
Start	2343	End	2666
Name	OJ990427_26.9922.C18.o2.ts	Method	TBLASTX:Soybean
Start	2343	End	2666
GI	none	Score	79
Exons	2343..2426, 2345..2425, 2429..2515, 2430..2516, 2430..2519, 2432..2521, 2614..2664, 2616..2666, 2616..2666		

Seq. No.	14365	Seq. ID	OJ990427_26.9922.C18
Gene No.	30726	Strand	
Start	2343	End	2666
Name	OJ990427_26.9922.C18.o2.tm	Method	TBLASTX:Maize
Start	2357	End	2637
GI	none	Score	104
Exons	2357..2431, 2358..2429, 2358..2432, 2359..2430, 2399..2635, 2410..2637, 2411..2635, 2428..2637		

Seq. No.	14365	Seq. ID	OJ990427_26.9922.C18
Gene No.	30727	Strand	
Start	2598	End	3103
Name	OJ990427_26.9922.C18.o1.tc	Method	TBLASTX:Cress
Start	2598	End	3103
GI	none	Score	76
Exons	2598..2654, 2600..2653, 2601..2675, 2663..2713, 2664..2714, 2747..2926, 2749..2925, 2750..2944, 2901..3008, 2901..2993, 2927..3004, 3056..3103, 3065..3103		

Seq. No.	14365	Seq. ID	OJ990427_26.9922.C18
Gene No.	30728	Strand	
Start	3040	End	3352
Name	OJ990427_26.9922.C18.o1.tm	Method	TBLASTX:Maize
Start	3040	End	3352
GI	none	Score	338
Exons	3040..3255, 3045..3254, 3056..3337, 3246..3350, 3252..3350, 3253..3351, 3317..3352		

Seq. No.	14365	Seq. ID	OJ990427_26.9922.C18
Gene No.	30728	Strand	
Start	3040	End	3352
Name	OJ990427_26.9922.C18.o1.tw	Method	TBLASTX:Wheat
Start	3051	End	3270
GI	none	Score	325
Exons	3051..3269, 3051..3269, 3052..3270		

Seq. No.	14366	Seq. ID	OJ990427_26.9922.C19
Gene No.	30729	Strand	+
Start	1	End	357
Name	OJ990427_26.9922.C19.o1.gp	Method	AAT/GAP
Start	1	End	357
GI	1629_2.R1084	Score	555
Exons	1..357		

GI Descrip. '1245217/gb|U49840|OSU49840 1.0e-170 Oryza sativa subsp. indica large ribosomal RNA gene, chloroplast gene encoding chloroplast rRNA, partial sequence'

Seq. No.	14366	Seq. ID	OJ990427_26.9922.C19
Gene No.	30730	Strand	-
Start	759	End	1276
Name	OJ990427_26.9922.C19.o1.tc	Method	TBLASTX:Cress
Start	3	End	353
GI	none	Score	256
Exons	3..167, 7..171, 8..172, 157..240, 163..327, 173..325, 282..329, 332..352, 333..353		

Seq. No.	14366	Seq. ID	OJ990427_26.9922.C19
Gene No.	30730	Strand	-
Start	759	End	1276
Name	OJ990427_26.9922.C19.o1.ts	Method	TBLASTX:Soybean
Start	3	End	357
GI	none	Score	270
Exons	3..167, 7..171, 8..172, 157..240, 163..279, 173..289, 177..296, 232..357, 270..356, 292..357		

Seq. No.	14366	Seq. ID	OJ990427_26.9922.C19
Gene No.	30730	Strand	-
Start	759	End	1276
Name	OJ990427_26.9922.C19.o1.tw	Method	TBLASTX:Wheat
Start	66	End	1203
GI	none	Score	59
Exons	66..119, 279..332, 758..790, 759..791, 759..797, 764..1036, 765..1037, 766..1038, 788..1039, 839..883, 840..884, 1108..1203, 1109..1201, 1111..1203		

Seq. No.	14366	Seq. ID	OJ990427_26.9922.C19
Gene No.	30730	Strand	-
Start	759	End	1276
Name	OJ990427_26.9922.C19.o2.tm	Method	TBLASTX:Maize
Start	129	End	357
GI	none	Score	160
Exons	129..221, 130..357, 131..355, 267..356, 292..357		

Seq. No.	14366	Seq. ID	OJ990427_26.9922.C19
Gene No.	30730	Strand	-
Start	759	End	1276
Name	OJ990427_26.9922.C19.o1.tm	Method	TBLASTX:Maize
Start	758	End	1039
GI	none	Score	486
Exons	758..1036, 759..1037, 760..1038, 761..1039, 839..883, 840..884		

Seq. No.	14366	Seq. ID	OJ990427_26.9922.C19
Gene No.	30730	Strand	-
Start	759	End	1276
Name	OJ990427_26.9922.C19.o2.gp	Method	AAT/GAP
Start	759	End	1276
GI	306_9.R1084	Score	744
Exons	759..1038, 1109..1276		

GI Descrip. '287391/dbj|D13111|RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene'

Seq. No.	14366	Seq. ID	OJ990427_26.9922.C19
Gene No.	30730	Strand	-
Start	759	End	1276
Name	OJ990427_26.9922.C19.o2.tc	Method	TBLASTX:Cress
Start	939	End	1276
GI	none	Score	36
Exons	939..968, 960..1019, 975..1037, 1108..1233, 1109..1240, 1210..1275, 1211..1276, 1211..1276		

Seq. No.	14366	Seq. ID	OJ990427_26.9922.C19
Gene No.	30730	Strand	-
Start	759	End	1276
Name	OJ990427_26.9922.C19.o3.tm	Method	TBLASTX:Maize
Start	1108	End	1259
GI	none	Score	188
Exons	1108..1233, 1109..1240, 1210..1257, 1211..1258, 1212..1259		

Seq. No.	14367	Seq. ID	OJ990407_11.9922.C1
Gene No.	30731	Strand	+
Start	1	End	429
Name	OJ990407_11.9922.C1.o1.np	Method	AAT/NAP
Start	1	End	429
GI	6721512	Score	126
Exons	1..364, 407..429		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14367	Seq. ID	OJ990407_11.9922.C1
Gene No.	30732	Strand	-
Start	280	End	427
Name	OJ990407_11.9922.C1.o1.gs	Method	GENSCAN
Start	280	End	427
GI	none	Score	.73
Exons	280..427		

Seq. No.	14368	Seq. ID	OJ990407_11.9922.C2
Gene No.	30733	Strand	+
Start	1	End	410
Name	OJ990407_11.9922.C2.o1.np	Method	AAT/NAP
Start	1	End	410
GI	100210	Score	104
Exons	1..410		
GI Descrip.	extensin precursor (clone Tom L-4) - tomato gi|170444 (M76671) extensin (class II) [Lycopersicon esculentum]		

Seq. No.	14369	Seq. ID	OJ990407_11.9922.C3
Gene No.	30734	Strand	+
Start	1	End	5552
Name	OJ990407_11.9922.C3.o1.np	Method	AAT/NAP
Start	1	End	5552
GI	4938491	Score	1004
Exons	1..748, 912..1108, 1145..2177, 2367..2668, 3319..3703, 3752..4150, 4238..4385, 4413..5001, 5534..5552		
GI Descrip.	(AL078464) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14369	Seq. ID	OJ990407_11.9922.C3
Gene No.	30734	Strand	+

Start	1	End	5552
Name	OJ990407_11.9922.C3.o1.gs	Method	GENSCAN
Start	107	End	4997
GI	none	Score	.62
Exons	107..602, 913..1286, 1695..1850, 2067..2177, 2367..2668, 3319..4997		

Seq. No.	14369	Seq. ID	OJ990407_11.9922.C3
Gene No.	30734	Strand	+
Start	1	End	5552
Name	OJ990407_11.9922.C3.o1.gp	Method	AAT/GAP
Start	1599	End	2114
GI	53041_1.R1084	Score	1028
Exons	1599..2114		
GI Descrip.	'4938491/emb|CAB43850.1| 1.0e-10 (AL078464) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	14369	Seq. ID	OJ990407_11.9922.C3
Gene No.	30734	Strand	+
Start	1	End	5552
Name	OJ990407_11.9922.C3.o2.tm	Method	TBLASTX:Maize
Start	3753	End	3951
GI	none	Score	225
Exons	3753..3938, 3754..3951, 3755..3949		

Seq. No.	14369	Seq. ID	OJ990407_11.9922.C3
Gene No.	30734	Strand	+
Start	1	End	5552
Name	OJ990407_11.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	4375	End	4641
GI	none	Score	288
Exons	4375..4641, 4376..4639		

Seq. No.	14370	Seq. ID	OJ990407_11.9922.C4
Gene No.	30735	Strand	+
Start	1	End	1383
Name	OJ990407_11.9922.C4.o1.np	Method	AAT/NAP
Start	1	End	1187
GI	4938491	Score	347
Exons	1..412, 459..665, 1091..1187		
GI Descrip.	(AL078464) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14370	Seq. ID	OJ990407_11.9922.C4
Gene No.	30735	Strand	+
Start	1	End	1383
Name	OJ990407_11.9922.C4.o1.gs	Method	GENSCAN
Start	219	End	1383
GI	none	Score	.44
Exons	219..412, 503..584, 917..1020, 1091..1182, 1307..1383		

Seq. No.	14370	Seq. ID	OJ990407_11.9922.C4
Gene No.	30736	Strand	+
Start	1308	End	1901
Name	OJ990407_11.9922.C4.o1.gp	Method	AAT/GAP
Start	1308	End	1901
GI	55483_1.R1084	Score	980
Exons	1308..1558, 1633..1901		

GI Descrip. '4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'

Seq. No.	14371	Seq. ID	OJ990407_11.9922.C5
Gene No.	30737	Strand	+
Start	32	End	3746
Name	OJ990407_11.9922.C5.o1.gs	Method	GENSCAN
Start	32	End	3746
GI	none	Score	.63
Exons	32..244, 3089..3267, 3290..3492, 3531..3596, 3721..3746		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30738	Strand	+
Start	725	End	2386
Name	OJ990407_11.9922.C6.o1.gs	Method	GENSCAN
Start	725	End	2386
GI	none	Score	.61
Exons	725..868, 1333..1456, 2241..2386		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30739	Strand	+
Start	8319	End	9365
Name	OJ990407_11.9922.C6.o2.gp	Method	AAT/GAP
Start	8319	End	8766
GI	5038970	Score	811
Exons	8319..8766		

GI Descrip. 4468813/emb|CAB38214| 2.0e-10 (AL035601) putative protein [Arabidopsis thaliana]

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30739	Strand	+
Start	8319	End	9365
Name	OJ990407_11.9922.C6.o3.np	Method	AAT/NAP
Start	8474	End	9365
GI	6223644	Score	987
Exons	8474..8847, 8939..9365		

GI Descrip. (AC011698) unknown protein [Arabidopsis thaliana]

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30740	Strand	+
Start	9392	End	9711
Name	OJ990407_11.9922.C6.o3.gp	Method	AAT/GAP
Start	9392	End	9711
GI	5038584	Score	586
Exons	9392..9711		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30741	Strand	-
Start	3929	End	7111
Name	OJ990407_11.9922.C6.o2.gs	Method	GENSCAN
Start	3929	End	7111
GI	none	Score	.88
Exons	3929..3984, 5313..6281, 6631..7111		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30741	Strand	-
Start	3929	End	7111

Name	OJ990407_11.9922.C6.o1.gp	Method	AAT/GAP
Start	4504	End	4566
GI	LIB3432-007-P1-K1-E2	Score	104
Exons	4504..4566		
GI Descrip.	'4468813/emb|CAB38214| 2.0e-10 (AL035601) putative protein [Arabidopsis thaliana]'		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o5.tm	Method	TBLASTX:Maize
Start	3832	End	4122
GI	none	Score	109
Exons	3832..3903, 3926..4114, 3934..4122		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o1.tw	Method	TBLASTX:Wheat
Start	4201	End	4566
GI	none	Score	78
Exons	4201..4563, 4318..4566		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o3.tm	Method	TBLASTX:Maize
Start	4294	End	4765
GI	none	Score	73
Exons	4294..4380, 4298..4375, 4393..4764, 4616..4765		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o4.tw	Method	TBLASTX:Wheat
Start	4663	End	5214
GI	none	Score	60
Exons	4663..4779, 4807..4845, 4852..5214, 4906..5067		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o2.ts	Method	TBLASTX:Soybean
Start	4837	End	5364
GI	none	Score	113
Exons	4837..5001, 5011..5364, 5039..5248		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o2.tm	Method	TBLASTX:Maize
Start	4970	End	5931
GI	none	Score	95
Exons	4970..5236, 5014..5931, 5309..5446, 5521..5892, 5528..5908		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-

Start	9697	End	9855
Name	OJ990407_11.9922.C6.o7.tw	Method	TBLASTX:Wheat
Start	5221	End	5568
GI	none	Score	99
Exons	5221..5301, 5293..5445, 5455..5568		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o3.tw	Method	TBLASTX:Wheat
Start	5569	End	5880
GI	none	Score	187
Exons	5569..5880, 5606..5845		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o4.tm	Method	TBLASTX:Maize
Start	6068	End	6779
GI	none	Score	58
Exons	6068..6130, 6070..6168, 6124..6315, 6136..6225, 6289..6471, 6590..6778, 6591..6779		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o2.tw	Method	TBLASTX:Wheat
Start	6208	End	6549
GI	none	Score	100
Exons	6208..6549, 6209..6421		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o5.tw	Method	TBLASTX:Wheat
Start	6826	End	7196
GI	none	Score	61
Exons	6826..7053, 6842..7069, 7062..7196, 7063..7140		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o1.tm	Method	TBLASTX:Maize
Start	8470	End	9266
GI	none	Score	454
Exons	8470..8649, 8486..8863, 8743..8862, 8936..9265, 8937..9266		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o6.tw	Method	TBLASTX:Wheat
Start	8470	End	8662
GI	none	Score	210
Exons	8470..8649, 8486..8662		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-

Start	9697	End	9855
Name	OJ990407_11.9922.C6.o1.tc	Method	TBLASTX:Cress
Start	8489	End	9122
GI	none	Score	215
Exons	8489..8680, 8735..8851, 8743..8844, 8937..9089, 9069..9122		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o1.ts	Method	TBLASTX:Soybean
Start	8489	End	9329
GI	none	Score	397
Exons	8489..8851, 8551..8649, 8743..8844, 8937..9329, 8984..9301		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o2.tc	Method	TBLASTX:Cress
Start	9123	End	9329
GI	none	Score	241
Exons	9123..9329, 9125..9301		

Seq. No.	14372	Seq. ID	OJ990407_11.9922.C6
Gene No.	30742	Strand	-
Start	9697	End	9855
Name	OJ990407_11.9922.C6.o4.gs	Method	GENSCAN
Start	9697	End	9855
GI	none	Score	.96
Exons	9697..9855		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30743	Strand	+
Start	101	End	762
Name	OJ990407_11.9922.C8.o1.gs	Method	GENSCAN
Start	101	End	762
GI	none	Score	.63
Exons	101..274, 387..762		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30744	Strand	+
Start	5982	End	11759
Name	OJ990407_11.9922.C8.o1.np	Method	AAT/NAP
Start	5982	End	11576
GI	3335060	Score	3935
Exons	5982..6158, 7707..7778, 7887..9818, 9903..10061, 10274..10445, 10810..11108, 11340..11576		
GI Descrip.	(AF025842) plasma membrane-type calcium ATPase [Arabidopsis thaliana] gi|4468989|emb|CAB38303| (AL035605) plasma membrane-type calcium ATPase (ACA2) [Arabidopsis thaliana]		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30744	Strand	+
Start	5982	End	11759
Name	OJ990407_11.9922.C8.o3.gs	Method	GENSCAN
Start	5982	End	11759
GI	none	Score	.62
Exons	5982..6198, 7669..7761, 7867..9842, 9903..10061, 10274..10445,		

10810..11108, 11340..11574, 11731..11759

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30745	Strand	+
Start	13436	End	14013
Name	OJ990407_11.9922.C8.o1.gp	Method	AAT/GAP
Start	13436	End	14013
GI	4715133	Score	1129
Exons	13436..14013		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-
Start	12659	End	16757
Name	OJ990407_11.9922.C8.o4.tm	Method	TBLASTX:Maize
Start	5976	End	7912
GI	none	Score	196
Exons	5976..6104, 5978..6148, 5978..6160, 5982..6155, 7706..7756, 7707..7766, 7868..7912, 7869..7910		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-
Start	12659	End	16757
Name	OJ990407_11.9922.C8.o1.tc	Method	TBLASTX:Cress
Start	5978	End	11573
GI	none	Score	235
Exons	5978..6154, 5982..6158, 7690..7788, 7704..7817, 7878..9821, 7880..9853, 9896..10063, 9900..10064, 9902..10063, 10265..10441, 10271..10453, 10273..10452, 10746..11111, 10772..11110, 10818..11120, 11318..11572, 11322..11573		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-
Start	12659	End	16757
Name	OJ990407_11.9922.C8.o4.ts	Method	TBLASTX:Soybean
Start	5978	End	7922
GI	none	Score	46
Exons	5978..6007, 5979..6008, 6014..6148, 6015..6158, 7704..7778, 7881..7922		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-
Start	12659	End	16757
Name	OJ990407_11.9922.C8.o3.tm	Method	TBLASTX:Maize
Start	7914	End	8189
GI	none	Score	339
Exons	7914..8042, 7922..8188, 7923..8189		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-
Start	12659	End	16757
Name	OJ990407_11.9922.C8.o3.ts	Method	TBLASTX:Soybean
Start	7923	End	8390
GI	none	Score	304
Exons	7923..8390, 8078..8359		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-

Start	12659	End	16757
Name	OJ990407_11.9922.C8.o2.tm	Method	TBLASTX:Maize
Start	8342	End	9146
GI	none	Score	1125
Exons	8342..9145, 8343..9146		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-
Start	12659	End	16757
Name	OJ990407_11.9922.C8.o2.ts	Method	TBLASTX:Soybean
Start	8484	End	9197
GI	none	Score	949
Exons	8484..9197, 8489..8758, 8792..9196		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-
Start	12659	End	16757
Name	OJ990407_11.9922.C8.o1.tw	Method	TBLASTX:Wheat
Start	8918	End	9263
GI	none	Score	418
Exons	8918..9262, 8919..9263		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-
Start	12659	End	16757
Name	OJ990407_11.9922.C8.o1.tm	Method	TBLASTX:Maize
Start	9150	End	11391
GI	none	Score	1019
Exons	9150..9821, 9152..9853, 9361..9822, 9900..10064, 9900..10064, 9902..10078, 10271..10453, 10273..10452, 10746..11111, 10772..11110, 10809..11120, 11325..11390, 11325..11390, 11326..11391		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-
Start	12659	End	16757
Name	OJ990407_11.9922.C8.o1.ts	Method	TBLASTX:Soybean
Start	9197	End	11573
GI	none	Score	813
Exons	9197..9856, 9198..9821, 9893..10063, 9900..10064, 10256..10447, 10271..10453, 10273..10452, 10543..10575, 10746..11111, 10772..11014, 10827..11018, 10951..11109, 11063..11110, 11325..11573, 11337..11570, 11339..11572		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-
Start	12659	End	16757
Name	OJ990407_11.9922.C8.o5.tm	Method	TBLASTX:Maize
Start	11391	End	11578
GI	none	Score	213
Exons	11391..11564, 11393..11578, 11394..11573		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-
Start	12659	End	16757
Name	OJ990407_11.9922.C8.o4.gs	Method	GENSCAN
Start	12659	End	15605

GI	none	Score	.87
Exons	12659..12864, 13346..13377, 14128..14309, 14421..14915, 14973..15134, 15279..15605		

Seq. No.	14373	Seq. ID	OJ990407_11.9922.C8
Gene No.	30746	Strand	-
Start	12659	End	16757
Name	OJ990407_11.9922.C8.o2.np	Method	AAT/NAP
Start	12762	End	16757
GI	3915637	Score	135
Exons	12762..12862, 14697..14915, 15048..15134, 15279..15329, 16657..16757		
GI Descrip.	CYCLIN DELTA-3 gi|2995134|emb|CAA58287| (X83371) cyclin delta-3 [Arabidopsis thaliana]		

Seq. No.	14374	Seq. ID	OJ990407_11.9922.C10
Gene No.	30747	Strand	-
Start	4	End	3719
Name	OJ990407_11.9922.C10.o1.gs	Method	GENSCAN
Start	4	End	3719
GI	none	Score	.45
Exons	4..136, 150..253, 258..437, 460..510, 762..833, 1424..1559, 3473..3719		

Seq. No.	14375	Seq. ID	OJ990407_11.9922.C11
Gene No.	30748	Strand	+
Start	1178	End	1797
Name	OJ990407_11.9922.C11.o1.gs	Method	GENSCAN
Start	1178	End	1797
GI	none	Score	.98
Exons	1178..1263, 1341..1797		

Seq. No.	14376	Seq. ID	OJ990407_11.9922.C12
Gene No.	30749	Strand	+
Start	1	End	852
Name	OJ990407_11.9922.C12.o1.np	Method	AAT/NAP
Start	1	End	852
GI	6503010	Score	178
Exons	1..41, 131..340, 756..852		
GI Descrip.	(AF174427) formin-like protein AHF1 [Arabidopsis thaliana]		

Seq. No.	14376	Seq. ID	OJ990407_11.9922.C12
Gene No.	30749	Strand	+
Start	1	End	852
Name	OJ990407_11.9922.C12.o1.tc	Method	TBLASTX:Cress
Start	1	End	338
GI	none	Score	59
Exons	1..45, 71..160, 126..338, 236..337		

Seq. No.	14376	Seq. ID	OJ990407_11.9922.C12
Gene No.	30749	Strand	+
Start	1	End	852
Name	OJ990407_11.9922.C12.o1.gs	Method	GENSCAN
Start	131	End	336
GI	none	Score	.91
Exons	131..336		

Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30750	Strand	+
Start	1	End	1874
Name	OJ990407_11.9922.C13.o1.np	Method	AAT/NAP
Start	1	End	1551
GI	6503010	Score	910
Exons	1..52, 384..628, 730..1551		
GI Descrip.	(AF174427) formin-like protein AHF1 [Arabidopsis thaliana]		

Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30750	Strand	+
Start	1	End	1874
Name	OJ990407_11.9922.C13.o1.gs	Method	GENSCAN
Start	434	End	1512
GI	none	Score	.87
Exons	434..628, 730..1512		

Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30750	Strand	+
Start	1	End	1874
Name	OJ990407_11.9922.C13.o1.gp	Method	AAT/GAP
Start	1299	End	1874
GI	none	Score	1085
Exons	1299..1874		

Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30751	Strand	+
Start	13599	End	13980
Name	OJ990407_11.9922.C13.o3.gp	Method	AAT/GAP
Start	13599	End	13980
GI	uC-osflM202056c07a1	Score	709
Exons	13599..13980		
GI Descrip.	'4099436/gb|U87250|MVU87250 4.0e-57 Mustela vison GT dinucleotide repeat, chromosome 2,3,5 and 7 centromeric'		

Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30752	Strand	-
Start	2168	End	3546
Name	OJ990407_11.9922.C13.o2.gs	Method	GENSCAN
Start	2168	End	3546
GI	none	Score	.75
Exons	2168..2287, 2414..2513, 3518..3546		

Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30753	Strand	-
Start	3856	End	4325
Name	OJ990407_11.9922.C13.o3.gs	Method	GENSCAN
Start	3856	End	4325
GI	none	Score	.84
Exons	3856..3970, 4282..4325		

Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30754	Strand	-
Start	6957	End	7687
Name	OJ990407_11.9922.C13.o2.gp	Method	AAT/GAP
Start	6332	End	7349
GI	6547_2.R1084	Score	1564

Exons	6332..7349		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 6.0e-30 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30754	Strand	-
Start	6957	End	7687
Name	OJ990407_11.9922.C13.o2.np	Method	AAT/NAP
Start	6536	End	7687
GI	6907106	Score	400
Exons	6536..6723, 6798..7028, 7057..7175, 7395..7687		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30754	Strand	-
Start	6957	End	7687
Name	OJ990407_11.9922.C13.o4.gs	Method	GENSCAN
Start	6957	End	7616
GI	none	Score	.84
Exons	6957..7616		
Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30755	Strand	-
Start	13793	End	14536
Name	OJ990407_11.9922.C13.o2.ts	Method	TBLASTX:Soybean
Start	357	End	627
GI	none	Score	59
Exons	357..458, 386..484, 491..625, 493..627, 532..627		
Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30755	Strand	-
Start	13793	End	14536
Name	OJ990407_11.9922.C13.o1.tc	Method	TBLASTX:Cress
Start	367	End	1026
GI	none	Score	100
Exons	367..444, 371..484, 491..628, 493..627, 502..636, 518..628, 720..1016, 721..1026		
Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30755	Strand	-
Start	13793	End	14536
Name	OJ990407_11.9922.C13.o1.tm	Method	TBLASTX:Maize
Start	393	End	966
GI	none	Score	137
Exons	393..575, 400..627, 401..628, 403..636, 477..632, 721..966, 729..938		
Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30755	Strand	-
Start	13793	End	14536
Name	OJ990407_11.9922.C13.o1.ts	Method	TBLASTX:Soybean
Start	723	End	1146
GI	none	Score	65
Exons	723..818, 723..947, 733..963, 999..1061, 1000..1146		
Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13

Gene No.	30755	Strand	-
Start	13793	End	14536
Name	OJ990407_11.9922.C13.o3.tm	Method	TBLASTX:Maize
Start	1162	End	1400
GI	none	Score	217
Exons	1162..1386, 1176..1400		

Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30755	Strand	-
Start	13793	End	14536
Name	OJ990407_11.9922.C13.o3.ts	Method	TBLASTX:Soybean
Start	1165	End	1482
GI	none	Score	185
Exons	1165..1380, 1167..1382, 1401..1457, 1402..1482		

Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30755	Strand	-
Start	13793	End	14536
Name	OJ990407_11.9922.C13.o2.tm	Method	TBLASTX:Maize
Start	6633	End	7007
GI	none	Score	92
Exons	6633..6689, 6634..6726, 6700..6780, 6747..6878, 6748..6984, 6772..6951, 6860..6982, 6861..7007, 6930..6983		

Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30755	Strand	-
Start	13793	End	14536
Name	OJ990407_11.9922.C13.o4.ts	Method	TBLASTX:Soybean
Start	12154	End	12429
GI	none	Score	98
Exons	12154..12261, 12158..12259, 12343..12390, 12345..12389, 12394..12429, 12395..12427		

Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30755	Strand	-
Start	13793	End	14536
Name	OJ990407_11.9922.C13.o3.np	Method	AAT/NAP
Start	12155	End	14274
GI	5678827	Score	180
Exons	12155..12258, 12345..12435, 13141..13211, 14161..14274		
GI Descrip.	(AF151646) PC-MYB1 [Arabidopsis thaliana] gi|5915721|gb|AAD53110.2|AF176005_1 (AF176005) putative c-myb-like transcription factor [Arabidopsis thaliana]		

Seq. No.	14377	Seq. ID	OJ990407_11.9922.C13
Gene No.	30755	Strand	-
Start	13793	End	14536
Name	OJ990407_11.9922.C13.o5.gs	Method	GENSCAN
Start	13793	End	14536
GI	none	Score	.84
Exons	13793..14084, 14176..14209, 14272..14536		

Seq. No.	14378	Seq. ID	OJ990407_11.9922.C14
Gene No.	30756	Strand	+
Start	1788	End	4005
Name	OJ990407_11.9922.C14.o3.np	Method	AAT/NAP
Start	1788	End	4005

GI	3249093	Score	66
Exons	1788..1964, 3971..4005		
GI Descrip.	(AC004473) Contains similarity to heat shock transcription factor homolog from A. thaliana chromosome 4 contig gb|Z97335. [Arabidopsis thaliana]		

Seq. No.	14378	Seq. ID	OJ990407_11.9922.C14
Gene No.	30757	Strand	-
Start	265	End	4678
Name	OJ990407_11.9922.C14.o1.gs	Method	GENSCAN
Start	265	End	4678
GI	none	Score	.59
Exons	265..744, 1880..2009, 4536..4678		

Seq. No.	14378	Seq. ID	OJ990407_11.9922.C14
Gene No.	30757	Strand	-
Start	265	End	4678
Name	OJ990407_11.9922.C14.o1.np	Method	AAT/NAP
Start	319	End	472
GI	4895194	Score	98
Exons	319..472		
GI Descrip.	(AC007661) putative peptide/amino acid transporter [Arabidopsis thaliana]		

Seq. No.	14378	Seq. ID	OJ990407_11.9922.C14
Gene No.	30757	Strand	-
Start	265	End	4678
Name	OJ990407_11.9922.C14.o2.np	Method	AAT/NAP
Start	319	End	2219
GI	4895194	Score	118
Exons	319..468, 2130..2219		
GI Descrip.	(AC007661) putative peptide/amino acid transporter [Arabidopsis thaliana]		

Seq. No.	14379	Seq. ID	OJ990407_11.9922.C15
Gene No.	30758	Strand	-
Start	176	End	3438
Name	OJ990407_11.9922.C15.o1.gs	Method	GENSCAN
Start	176	End	3426
GI	none	Score	.79
Exons	176..214, 365..628, 1134..1441, 1521..2459, 3396..3426		

Seq. No.	14379	Seq. ID	OJ990407_11.9922.C15
Gene No.	30758	Strand	-
Start	176	End	3438
Name	OJ990407_11.9922.C15.o1.np	Method	AAT/NAP
Start	1096	End	3438
GI	6693023	Score	749
Exons	1096..1355, 1506..2040, 2082..2459, 3396..3438		
GI Descrip.	(AC012375) T22C5.20 [Arabidopsis thaliana]		

Seq. No.	14380	Seq. ID	OJ990407_11.9922.C17
Gene No.	30759	Strand	-
Start	1	End	8235
Name	OJ990407_11.9922.C17.o1.np	Method	AAT/NAP
Start	1	End	8235
GI	6693023	Score	322

Exons	1..124, 215..277, 1092..1199, 1505..1635, 2325..2469, 8212..8235		
GI Descrip.	(AC012375) T22C5.20 [Arabidopsis thaliana]		
Seq. No.	14380	Seq. ID	OJ990407_11.9922.C17
Gene No.	30759	Strand	-
Start	1	End	8235
Name	OJ990407_11.9922.C17.o1.gp	Method	AAT/GAP
Start	23	End	921
GI	none	Score	394
Exons	23..124, 215..277, 801..921		
Seq. No.	14380	Seq. ID	OJ990407_11.9922.C17
Gene No.	30759	Strand	-
Start	1	End	8235
Name	OJ990407_11.9922.C17.o1.gs	Method	GENSCAN
Start	1235	End	2721
GI	none	Score	.41
Exons	1235..1248, 1300..1361, 1476..1635, 2325..2721		
Seq. No.	14380	Seq. ID	OJ990407_11.9922.C17
Gene No.	30759	Strand	-
Start	1	End	8235
Name	OJ990407_11.9922.C17.o2.gp	Method	AAT/GAP
Start	5363	End	8046
GI	42235_1.R1084	Score	904
Exons	5363..5488, 6614..6679, 6777..6849, 6922..6979, 7822..8046		
GI Descrip.	'4468985/emb|CAB38299| 2.0e-10 (AL035605) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	14380	Seq. ID	OJ990407_11.9922.C17
Gene No.	30759	Strand	-
Start	1	End	8235
Name	OJ990407_11.9922.C17.o2.gs	Method	GENSCAN
Start	5806	End	8041
GI	none	Score	.9
Exons	5806..5961, 6614..6679, 6777..6887, 7937..8041		
Seq. No.	14380	Seq. ID	OJ990407_11.9922.C17
Gene No.	30759	Strand	-
Start	1	End	8235
Name	OJ990407_11.9922.C17.o1.tm	Method	TBLASTX:Maize
Start	6614	End	6857
GI	none	Score	116
Exons	6614..6685, 6615..6686, 6774..6848, 6774..6857, 6775..6852		
Seq. No.	14381	Seq. ID	OJ990407_11.9922.C18
Gene No.	30760	Strand	+
Start	1	End	560
Name	OJ990407_11.9922.C18.o1.np	Method	AAT/NAP
Start	1	End	560
GI	5852180	Score	254
Exons	1..560		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	14381	Seq. ID	OJ990407_11.9922.C18
Gene No.	30760	Strand	+
Start	1	End	560

Name	OJ990407_11.9922.C18.o1.gs	Method	GENSCAN
Start	58	End	311
GI	none	Score	.45
Exons	58..311		

Seq. No.	14381	Seq. ID	OJ990407_11.9922.C18
Gene No.	30761	Strand	-
Start	1122	End	2043
Name	OJ990407_11.9922.C18.o2.gs	Method	GENSCAN
Start	1122	End	1957
GI	none	Score	.99
Exons	1122..1220, 1332..1397, 1511..1576, 1661..1957		

Seq. No.	14381	Seq. ID	OJ990407_11.9922.C18
Gene No.	30761	Strand	-
Start	1122	End	2043
Name	OJ990407_11.9922.C18.o2.np	Method	AAT/NAP
Start	1143	End	2043
GI	3297812	Score	279
Exons	1143..1220, 1332..1397, 1511..1576, 1661..1924, 2017..2043		
GI Descrip.	(AL031032) putative protein [Arabidopsis thaliana]		

Seq. No.	14382	Seq. ID	OJ990407_11.9922.C19
Gene No.	30762	Strand	+
Start	22	End	363
Name	OJ990407_11.9922.C19.o1.gs	Method	GENSCAN
Start	22	End	363
GI	none	Score	.7
Exons	22..363		

Seq. No.	14383	Seq. ID	OJ990407_11.9922.C20
Gene No.	30763	Strand	+
Start	5161	End	5294
Name	OJ990407_11.9922.C20.o2.gp	Method	AAT/GAP
Start	5161	End	5294
GI	LIB3474-009-P1-K1-F11	Score	228
Exons	5161..5294		
GI Descrip.	'4455244/emb|CAB36743.1| 6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		

Seq. No.	14383	Seq. ID	OJ990407_11.9922.C20
Gene No.	30764	Strand	+
Start	9658	End	10706
Name	OJ990407_11.9922.C20.o1.np	Method	AAT/NAP
Start	9658	End	10706
GI	6321697	Score	272
Exons	9658..10019, 10648..10706		
GI Descrip.	homolog of xeroderma pigmentosum group G (XPG) protein, copufurifies with transcription factor, TFIIH, mRNA is cell cycle regulated and induced by DNA damage and by meiosis (different cis-sites utilized in damage and me... gi|131811|sp|P07276|RAD2_YEAST DNA REPAIR PROTEIN RAD2 gi|83443|pir||A29839 RAD2 protein - yeast (Saccharomyces cerevisiae) gi|172329 (M10275)		

Seq. No.	14384	Seq. ID	OJ990407_11.9922.C21
Gene No.	30765	Strand	+

Start	238	End	908
Name	OJ990407_11.9922.C21.o1.gs	Method	GENSCAN
Start	238	End	908
GI	none	Score	.85
Exons	238..446, 526..661, 831..908		

Seq. No.	14385	Seq. ID	OJ990407_11.9922.C23
Gene No.	30766	Strand	+
Start	6	End	40
Name	OJ990407_11.9922.C23.o1.gs	Method	GENSCAN
Start	6	End	40
GI	none	Score	.88
Exons	6..40		

Seq. No.	14386	Seq. ID	OJ990407_11.9922.C24
Gene No.	30767	Strand	+
Start	249	End	347
Name	OJ990407_11.9922.C24.o1.gs	Method	GENSCAN
Start	249	End	347
GI	none	Score	.99
Exons	249..347		

Seq. No.	14387	Seq. ID	OJ990407_11.9922.C25
Gene No.	30768	Strand	-
Start	1	End	661
Name	OJ990407_11.9922.C25.o1.np	Method	AAT/NAP
Start	1	End	282
GI	5712619	Score	46
Exons	1..29, 144..282		
GI Descrip.	(AF125578) DNA repair endonuclease [Drosophila melanogaster]		

Seq. No.	14387	Seq. ID	OJ990407_11.9922.C25
Gene No.	30768	Strand	-
Start	1	End	661
Name	OJ990407_11.9922.C25.o1.tc	Method	TBLASTX:Cress
Start	131	End	271
GI	none	Score	123
Exons	131..271, 145..270		

Seq. No.	14387	Seq. ID	OJ990407_11.9922.C25
Gene No.	30768	Strand	-
Start	1	End	661
Name	OJ990407_11.9922.C25.o1.ts	Method	TBLASTX:Soybean
Start	145	End	661
GI	none	Score	124
Exons	145..282, 164..283, 519..659, 553..660, 567..659, 572..661		

Seq. No.	14387	Seq. ID	OJ990407_11.9922.C25
Gene No.	30768	Strand	-
Start	1	End	661
Name	OJ990407_11.9922.C25.o1.gs	Method	GENSCAN
Start	146	End	548
GI	none	Score	.82
Exons	146..282, 393..548		

Seq. No.	14388	Seq. ID	OJ990407_11.9922.C27
Gene No.	30769	Strand	+

Start	1	End	3047
Name	OJ990407_11.9922.C27.o1.np	Method	AAT/NAP
Start	1	End	3047
GI	267421	Score	246
Exons	1..21, 2005..2134, 2266..2460, 2579..2664, 2973..3047		
GI Descrip.	DNA-REPAIR PROTEIN COMPLEMENTING XP-G CELLS HOMOLOG (XERODERMA PIGMENTOSUM GROUP G COMPLEMENTING PROTEIN HOMOLOG) gi|422627|pir||S35994 DNA repair protein XPGC - African clawed frog gi|312433|emb|CAA49597| (X69977) XP-G related factor [Xenopus laevis]		

Seq. No.	14388	Seq. ID	OJ990407_11.9922.C27
Gene No.	30769	Strand	+
Start	1	End	3047
Name	OJ990407_11.9922.C27.o1.gs	Method	GENSCAN
Start	2	End	2664
GI	none	Score	.93
Exons	2..40, 226..410, 541..2134, 2266..2460, 2513..2664		

Seq. No.	14388	Seq. ID	OJ990407_11.9922.C27
Gene No.	30769	Strand	+
Start	1	End	3047
Name	OJ990407_11.9922.C27.o1.tw	Method	TBLASTX:Wheat
Start	683	End	1090
GI	none	Score	397
Exons	683..982, 683..811, 763..978, 768..983, 953..1090, 975..1076, 980..1090		

Seq. No.	14388	Seq. ID	OJ990407_11.9922.C27
Gene No.	30769	Strand	+
Start	1	End	3047
Name	OJ990407_11.9922.C27.o1.ts	Method	TBLASTX:Soybean
Start	2018	End	2385
GI	none	Score	114
Exons	2018..2146, 2062..2145, 2230..2385, 2263..2340, 2264..2383		

Seq. No.	14389	Seq. ID	OJ990407_11.9922.C28
Gene No.	30770	Strand	-
Start	192	End	266
Name	OJ990407_11.9922.C28.o1.gs	Method	GENSCAN
Start	192	End	266
GI	none	Score	.7
Exons	192..266		

Seq. No.	14390	Seq. ID	OJ990407_11.9922.C30
Gene No.	30771	Strand	+
Start	290	End	555
Name	OJ990407_11.9922.C30.o1.gs	Method	GENSCAN
Start	290	End	555
GI	none	Score	1
Exons	290..555		

Seq. No.	14391	Seq. ID	OJ990407_11.9922.C31
Gene No.	30772	Strand	+
Start	116	End	801
Name	OJ990407_11.9922.C31.o1.gs	Method	GENSCAN
Start	116	End	801

GI	none	Score	.48
Exons	116..125, 231..463, 721..801		

Seq. No.	14392	Seq. ID	OJ990407_11.9922.C32
Gene No.	30773	Strand	+
Start	112	End	198
Name	OJ990407_11.9922.C32.o1.gs	Method	GENSCAN
Start	112	End	198
GI	none	Score	.69
Exons	112..120, 172..198		

Seq. No.	14392	Seq. ID	OJ990407_11.9922.C32
Gene No.	30774	Strand	-
Start	550	End	831
Name	OJ990407_11.9922.C32.o2.gs	Method	GENSCAN
Start	550	End	831
GI	none	Score	.62
Exons	550..634, 773..831		

Seq. No.	14393	Seq. ID	OJ990407_11.9922.C33
Gene No.	30775	Strand	-
Start	205	End	322
Name	OJ990407_11.9922.C33.o1.gs	Method	GENSCAN
Start	205	End	322
GI	none	Score	.72
Exons	205..322		

Seq. No.	14394	Seq. ID	OJ990407_11.9922.C35
Gene No.	30776	Strand	+
Start	105	End	358
Name	OJ990407_11.9922.C35.o1.gs	Method	GENSCAN
Start	105	End	358
GI	none	Score	.48
Exons	105..134, 248..358		

Seq. No.	14394	Seq. ID	OJ990407_11.9922.C35
Gene No.	30777	Strand	+
Start	406	End	714
Name	OJ990407_11.9922.C35.o1.gp	Method	AAT/GAP
Start	406	End	714
GI	4715133	Score	583
Exons	406..714		

Seq. No.	14395	Seq. ID	OJ990407_11.9922.C36
Gene No.	30778	Strand	-
Start	1	End	602
Name	OJ990407_11.9922.C36.o1.np	Method	AAT/NAP
Start	1	End	602
GI	6693023	Score	114
Exons	1..279, 578..602		
GI Descrip.	(AC012375) T22C5.20 [Arabidopsis thaliana]		

Seq. No.	14395	Seq. ID	OJ990407_11.9922.C36
Gene No.	30778	Strand	-
Start	1	End	602
Name	OJ990407_11.9922.C36.o1.gs	Method	GENSCAN
Start	82	End	276

GI	none	Score	.73
Exons	82..276		
Seq. No.	14396	Seq. ID	OJ990427_10.9927.C1
Gene No.	30779	Strand	-
Start	103	End	297
Name	OJ990427_10.9927.C1.o1.gs	Method	GENSCAN
Start	103	End	297
GI	none	Score	.63
Exons	103..297		
Seq. No.	14397	Seq. ID	OJ990427_10.9927.C2
Gene No.	30780	Strand	-
Start	452	End	664
Name	OJ990427_10.9927.C2.o1.gs	Method	GENSCAN
Start	452	End	664
GI	none	Score	.64
Exons	452..664		
Seq. No.	14398	Seq. ID	OJ990427_10.9927.C3
Gene No.	30781	Strand	-
Start	43	End	441
Name	OJ990427_10.9927.C3.o1.gs	Method	GENSCAN
Start	43	End	441
GI	none	Score	.52
Exons	43..441		
Seq. No.	14399	Seq. ID	OJ990427_10.9927.C5
Gene No.	30782	Strand	+
Start	53	End	197
Name	OJ990427_10.9927.C5.o1.tm	Method	TBLASTX:Maize
Start	34	End	197
GI	none	Score	125
Exons	34..168, 47..193, 51..197		
Seq. No.	14399	Seq. ID	OJ990427_10.9927.C5
Gene No.	30782	Strand	+
Start	53	End	197
Name	OJ990427_10.9927.C5.o1.gs	Method	GENSCAN
Start	53	End	179
GI	none	Score	.53
Exons	53..179		
Seq. No.	14400	Seq. ID	OJ990427_10.9927.C8
Gene No.	30783	Strand	-
Start	155	End	663
Name	OJ990427_10.9927.C8.o1.gp	Method	AAT/GAP
Start	155	End	663
GI	24051_2.R1084	Score	937
Exons	155..663		
GI Descrip.	'2739219/emb|CAA04565| 2.0e-20 (AJ001161) rpS28 [Hordeum vulgare]'		
Seq. No.	14400	Seq. ID	OJ990427_10.9927.C8
Gene No.	30783	Strand	-
Start	155	End	663
Name	OJ990427_10.9927.C8.o1.tc	Method	TBLASTX:Cress

Start	428	End	656
GI	none	Score	88
Exons	428..553, 491..547, 530..655,	548..646,	549..656

Seq. No.	14400	Seq. ID	OJ990427_10.9927.C8
Gene No.	30783	Strand	-
Start	155	End	663
Name	OJ990427_10.9927.C8.o1.tm	Method	TBLASTX:Maize
Start	430	End	647
GI	none	Score	309
Exons	430..486, 434..646, 491..646,	534..647	

Seq. No.	14400	Seq. ID	OJ990427_10.9927.C8
Gene No.	30783	Strand	-
Start	155	End	663
Name	OJ990427_10.9927.C8.o1.ts	Method	TBLASTX:Soybean
Start	439	End	647
GI	none	Score	145
Exons	439..486, 440..643, 486..647,	491..643,	534..647

Seq. No.	14400	Seq. ID	OJ990427_10.9927.C8
Gene No.	30783	Strand	-
Start	155	End	663
Name	OJ990427_10.9927.C8.o1.tw	Method	TBLASTX:Wheat
Start	445	End	654
GI	none	Score	246
Exons	445..486, 449..646, 486..650,	491..646,	534..650, 556..654

Seq. No.	14400	Seq. ID	OJ990427_10.9927.C8
Gene No.	30783	Strand	-
Start	155	End	663
Name	OJ990427_10.9927.C8.o1.gs	Method	GENSCAN
Start	446	End	643
GI	none	Score	.76
Exons	446..643		

Seq. No.	14400	Seq. ID	OJ990427_10.9927.C8
Gene No.	30783	Strand	-
Start	155	End	663
Name	OJ990427_10.9927.C8.o1.np	Method	AAT/NAP
Start	449	End	643
GI	2739219	Score	303
Exons	449..643		
GI Descrip.	(AJ001161) rpS28 [Hordeum vulgare]		

Seq. No.	14401	Seq. ID	OJ990427_10.9927.C9
Gene No.	30784	Strand	-
Start	16	End	305
Name	OJ990427_10.9927.C9.o1.gs	Method	GENSCAN
Start	16	End	305
GI	none	Score	.96
Exons	16..194, 293..305		

Seq. No.	14402	Seq. ID	OJ990427_10.9927.C10
Gene No.	30785	Strand	-
Start	9	End	460
Name	OJ990427_10.9927.C10.o1.gs	Method	GENSCAN

Start	9	End	460
GI	none	Score	.84
Exons	9..73, 162..235, 407..460		

Seq. No.	14403	Seq. ID	OJ990427_10.9927.C11
Gene No.	30786	Strand	-
Start	215	End	505
Name	OJ990427_10.9927.C11.o1.gs	Method	GENSCAN
Start	215	End	505
GI	none	Score	.93
Exons	215..505		

Seq. No.	14404	Seq. ID	OJ990427_10.9927.C12
Gene No.	30787	Strand	+
Start	418	End	1603
Name	OJ990427_10.9927.C12.o1.gs	Method	GENSCAN
Start	418	End	1603
GI	none	Score	.55
Exons	418..604, 953..1128, 1271..1603		

Seq. No.	14404	Seq. ID	OJ990427_10.9927.C12
Gene No.	30788	Strand	-
Start	5396	End	7330
Name	OJ990427_10.9927.C12.o2.gs	Method	GENSCAN
Start	5396	End	7258
GI	none	Score	.87
Exons	5396..5713, 5796..5927, 6799..6939, 7082..7258		

Seq. No.	14404	Seq. ID	OJ990427_10.9927.C12
Gene No.	30788	Strand	-
Start	5396	End	7330
Name	OJ990427_10.9927.C12.o1.np	Method	AAT/NAP
Start	6633	End	7330
GI	5091616	Score	90
Exons	6633..6706, 6799..6905, 7072..7330		
GI Descrip.	(AC007454) F23M19.3 [Arabidopsis thaliana]		

Seq. No.	14405	Seq. ID	OJ990427_10.9927.C13
Gene No.	30789	Strand	-
Start	1	End	4080
Name	OJ990427_10.9927.C13.o1.np	Method	AAT/NAP
Start	1	End	3331
GI	5091616	Score	191
Exons	1..339, 423..563, 613..692, 1173..1412, 3288..3331		
GI Descrip.	(AC007454) F23M19.3 [Arabidopsis thaliana]		

Seq. No.	14405	Seq. ID	OJ990427_10.9927.C13
Gene No.	30789	Strand	-
Start	1	End	4080
Name	OJ990427_10.9927.C13.o1.gs	Method	GENSCAN
Start	121	End	3535
GI	none	Score	.73
Exons	121..339, 767..884, 1203..1669, 3204..3357, 3447..3535		

Seq. No.	14405	Seq. ID	OJ990427_10.9927.C13
Gene No.	30789	Strand	-
Start	1	End	4080

Name	OJ990427_10.9927.C13.o2.tm	Method	TBLASTX:Maize
Start	1026	End	1387
GI	none	Score	65
Exons	1026..1121, 1026..1121, 1033..1146, 1199..1387, 1202..1384		

Seq. No.	14405	Seq. ID	OJ990427_10.9927.C13
Gene No.	30789	Strand	-
Start	1	End	4080
Name	OJ990427_10.9927.C13.o2.ts	Method	TBLASTX:Soybean
Start	1026	End	1406
GI	none	Score	66
Exons	1026..1121, 1033..1143, 1199..1384, 1202..1405, 1314..1406		

Seq. No.	14405	Seq. ID	OJ990427_10.9927.C13
Gene No.	30789	Strand	-
Start	1	End	4080
Name	OJ990427_10.9927.C13.o2.np	Method	AAT/NAP
Start	1691	End	4077
GI	4530126	Score	312
Exons	1691..1714, 2973..3138, 3211..3357, 3447..3669, 3807..3874, 3926..4077		
GI Descrip.	(AF078082) receptor-like protein kinase homolog RK20-1 [Phaseolus vulgaris]		

Seq. No.	14405	Seq. ID	OJ990427_10.9927.C13
Gene No.	30789	Strand	-
Start	1	End	4080
Name	OJ990427_10.9927.C13.o1.tm	Method	TBLASTX:Maize
Start	2963	End	3658
GI	none	Score	78
Exons	2963..3118, 2978..3118, 3246..3356, 3247..3357, 3248..3358, 3442..3633, 3446..3649, 3447..3650, 3447..3650, 3448..3654, 3494..3658		

Seq. No.	14405	Seq. ID	OJ990427_10.9927.C13
Gene No.	30789	Strand	-
Start	1	End	4080
Name	OJ990427_10.9927.C13.o1.ts	Method	TBLASTX:Soybean
Start	2981	End	4080
GI	none	Score	67
Exons	2981..3073, 3107..3130, 3252..3356, 3253..3357, 3449..3592, 3450..3584, 3581..3658, 3585..3638, 3820..3885, 3913..4080		

Seq. No.	14405	Seq. ID	OJ990427_10.9927.C13
Gene No.	30789	Strand	-
Start	1	End	4080
Name	OJ990427_10.9927.C13.o1.tw	Method	TBLASTX:Wheat
Start	3232	End	3614
GI	none	Score	96
Exons	3232..3357, 3246..3356, 3273..3365, 3449..3613, 3450..3614		

Seq. No.	14405	Seq. ID	OJ990427_10.9927.C13
Gene No.	30789	Strand	-
Start	1	End	4080
Name	OJ990427_10.9927.C13.o1.tc	Method	TBLASTX:Cress
Start	3252	End	4080
GI	none	Score	65

Exons	3252..3353, 3253..3345, 3449..3583, 3450..3584, 3581..3658, 3820..3885, 3913..4080		
Seq. No.	14406	Seq. ID	OJ990427_10.9927.C14
Gene No.	30790	Strand	-
Start	1	End	135
Name	OJ990427_10.9927.C14.o1.gp	Method	AAT/GAP
Start	1	End	135
GI	none	Score	266
Exons	1..135		
Seq. No.	14406	Seq. ID	OJ990427_10.9927.C14
Gene No.	30790	Strand	-
Start	1	End	135
Name	OJ990427_10.9927.C14.o1.gs	Method	GENSCAN
Start	18	End	104
GI	none	Score	.91
Exons	18..104		
Seq. No.	14407	Seq. ID	OJ990427_10.9927.C16
Gene No.	30791	Strand	+
Start	3477	End	5827
Name	OJ990427_10.9927.C16.o2.gs	Method	GENSCAN
Start	3477	End	5827
GI	none	Score	.55
Exons	3477..3540, 4375..4405, 4766..4896, 5331..5827		
Seq. No.	14407	Seq. ID	OJ990427_10.9927.C16
Gene No.	30792	Strand	-
Start	1684	End	5997
Name	OJ990427_10.9927.C16.o1.gs	Method	GENSCAN
Start	1684	End	2251
GI	none	Score	.99
Exons	1684..1922, 1924..2251		
Seq. No.	14407	Seq. ID	OJ990427_10.9927.C16
Gene No.	30792	Strand	-
Start	1684	End	5997
Name	OJ990427_10.9927.C16.o1.np	Method	AAT/NAP
Start	1709	End	5997
GI	4835767	Score	410
Exons	1709..2233, 5311..5997		
GI Descrip.	(AC007202) T8K14.16 [Arabidopsis thaliana]		
Seq. No.	14407	Seq. ID	OJ990427_10.9927.C16
Gene No.	30792	Strand	-
Start	1684	End	5997
Name	OJ990427_10.9927.C16.o1.tm	Method	TBLASTX:Maize
Start	1759	End	2239
GI	none	Score	102
Exons	1759..1875, 1760..1876, 1838..1900, 1928..1996, 1932..1997, 1997..2107, 2000..2239, 2004..2237		
Seq. No.	14407	Seq. ID	OJ990427_10.9927.C16
Gene No.	30792	Strand	-
Start	1684	End	5997
Name	OJ990427_10.9927.C16.o1.ts	Method	TBLASTX:Soybean

Start	1759	End	2125
GI	none	Score	81
Exons	1759..1848, 1760..1849, 1928..2125, 1944..2105		

Seq. No.	14407	Seq. ID	OJ990427_10.9927.C16
Gene No.	30792	Strand	-
Start	1684	End	5997
Name	OJ990427_10.9927.C16.o2.tm	Method	TBLASTX:Maize
Start	5441	End	5949
GI	none	Score	66
Exons	5441..5491, 5441..5491, 5531..5593, 5532..5594, 5565..5651, 5582..5638, 5622..5651, 5623..5652, 5756..5848, 5790..5888, 5914..5949		

Seq. No.	14408	Seq. ID	OJ990427_10.9927.C17
Gene No.	30793	Strand	+
Start	3713	End	4809
Name	OJ990427_10.9927.C17.o1.gs	Method	GENSCAN
Start	3713	End	4809
GI	none	Score	.46
Exons	3713..3827, 4407..4636, 4690..4809		

Seq. No.	14408	Seq. ID	OJ990427_10.9927.C17
Gene No.	30794	Strand	+
Start	5307	End	9052
Name	OJ990427_10.9927.C17.o2.gs	Method	GENSCAN
Start	5307	End	8981
GI	none	Score	.44
Exons	5307..5391, 5537..5779, 7570..8981		

Seq. No.	14408	Seq. ID	OJ990427_10.9927.C17
Gene No.	30794	Strand	+
Start	5307	End	9052
Name	OJ990427_10.9927.C17.o1.np	Method	AAT/NAP
Start	6317	End	9052
GI	4680203	Score	1178
Exons	6317..6352, 7572..9052		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	14408	Seq. ID	OJ990427_10.9927.C17
Gene No.	30794	Strand	+
Start	5307	End	9052
Name	OJ990427_10.9927.C17.o1.tw	Method	TBLASTX:Wheat
Start	7929	End	8609
GI	none	Score	247
Exons	7929..8345, 8018..8218, 8354..8464, 8358..8477, 8484..8609		

Seq. No.	14408	Seq. ID	OJ990427_10.9927.C17
Gene No.	30794	Strand	+
Start	5307	End	9052
Name	OJ990427_10.9927.C17.o1.ts	Method	TBLASTX:Soybean
Start	8001	End	8338
GI	none	Score	47
Exons	8001..8048, 8006..8056, 8054..8338, 8055..8336		

Seq. No.	14408	Seq. ID	OJ990427_10.9927.C17
Gene No.	30794	Strand	+

Start	5307	End	9052
Name	OJ990427_10.9927.C17.o2.ts	Method	TBLASTX:Soybean
Start	8357	End	8624
GI	none	Score	226
Exons	8357..8605, 8361..8624, 8382..8606		

Seq. No.	14408	Seq. ID	OJ990427_10.9927.C17
Gene No.	30794	Strand	+
Start	5307	End	9052
Name	OJ990427_10.9927.C17.o1.tc	Method	TBLASTX:Cress
Start	8358	End	8705
GI	none	Score	334
Exons	8358..8705, 8363..8512, 8552..8704		

Seq. No.	14408	Seq. ID	OJ990427_10.9927.C17
Gene No.	30794	Strand	+
Start	5307	End	9052
Name	OJ990427_10.9927.C17.o1.tm	Method	TBLASTX:Maize
Start	8544	End	8993
GI	none	Score	230
Exons	8544..8675, 8549..8776, 8550..8792, 8774..8977, 8799..8993		

Seq. No.	14408	Seq. ID	OJ990427_10.9927.C17
Gene No.	30794	Strand	+
Start	5307	End	9052
Name	OJ990427_10.9927.C17.o2.tw	Method	TBLASTX:Wheat
Start	8613	End	8954
GI	none	Score	49
Exons	8613..8645, 8658..8753, 8660..8755, 8705..8953, 8799..8954		

Seq. No.	14408	Seq. ID	OJ990427_10.9927.C17
Gene No.	30794	Strand	+
Start	5307	End	9052
Name	OJ990427_10.9927.C17.o3.ts	Method	TBLASTX:Soybean
Start	8828	End	9050
GI	none	Score	211
Exons	8828..8989, 8829..9050, 8853..9050		

Seq. No.	14409	Seq. ID	OJ990427_10.9927.C18
Gene No.	30795	Strand	+
Start	1	End	1415
Name	OJ990427_10.9927.C18.o1.np	Method	AAT/NAP
Start	1	End	1240
GI	6742729	Score	990
Exons	1..1240		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	14409	Seq. ID	OJ990427_10.9927.C18
Gene No.	30795	Strand	+
Start	1	End	1415
Name	OJ990427_10.9927.C18.o2.tm	Method	TBLASTX:Maize
Start	57	End	272
GI	none	Score	229
Exons	57..257, 81..272, 83..271		

Seq. No.	14409	Seq. ID	OJ990427_10.9927.C18
Gene No.	30795	Strand	+

Start	1	End	1415
Name	OJ990427_10.9927.C18.o2.tw	Method	TBLASTX:Wheat
Start	77	End	281
GI	none	Score	167
Exons	77..193, 78..197, 78..194, 198..281, 209..250		

Seq. No.	14409	Seq. ID	OJ990427_10.9927.C18
Gene No.	30795	Strand	+
Start	1	End	1415
Name	OJ990427_10.9927.C18.o1.ts	Method	TBLASTX:Soybean
Start	369	End	752
GI	none	Score	85
Exons	369..497, 507..752, 626..751		

Seq. No.	14409	Seq. ID	OJ990427_10.9927.C18
Gene No.	30795	Strand	+
Start	1	End	1415
Name	OJ990427_10.9927.C18.o1.tw	Method	TBLASTX:Wheat
Start	408	End	1415
GI	none	Score	509
Exons	408..950, 452..952, 957..1157, 1010..1147, 1155..1295, 1169..1294, 1311..1361, 1318..1362, 1362..1415		

Seq. No.	14409	Seq. ID	OJ990427_10.9927.C18
Gene No.	30795	Strand	+
Start	1	End	1415
Name	OJ990427_10.9927.C18.o1.tm	Method	TBLASTX:Maize
Start	449	End	764
GI	none	Score	298
Exons	449..745, 450..764		

Seq. No.	14409	Seq. ID	OJ990427_10.9927.C18
Gene No.	30795	Strand	+
Start	1	End	1415
Name	OJ990427_10.9927.C18.o1.tc	Method	TBLASTX:Cress
Start	695	End	1121
GI	none	Score	238
Exons	695..952, 699..950, 957..1121, 1010..1117		

Seq. No.	14410	Seq. ID	OJ990427_10.9927.C19
Gene No.	30796	Strand	+
Start	416	End	540
Name	OJ990427_10.9927.C19.o1.gs	Method	GENSCAN
Start	416	End	540
GI	none	Score	.6
Exons	416..540		

Seq. No.	14411	Seq. ID	OJ990427_10.9927.C20
Gene No.	30797	Strand	+
Start	4195	End	5866
Name	OJ990427_10.9927.C20.o1.np	Method	AAT/NAP
Start	4195	End	5866
GI	6907086	Score	1191
Exons	4195..4964, 5022..5177, 5412..5866		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	14411	Seq. ID	OJ990427_10.9927.C20

Gene No.	30798	Strand	-
Start	4526	End	5686
Name	OJ990427_10.9927.C20.o2.gs	Method	GENSCAN
Start	4526	End	5686
GI	none	Score	.54
Exons	4526..4732, 4822..4947, 5555..5686		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30799	Strand	+
Start	91	End	596
Name	OJ990427_10.9927.C21.o1.gs	Method	GENSCAN
Start	91	End	596
GI	none	Score	.52
Exons	91..596		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30800	Strand	+
Start	3229	End	5058
Name	OJ990427_10.9927.C21.o2.gs	Method	GENSCAN
Start	3229	End	5058
GI	none	Score	.52
Exons	3229..3331, 4268..4780, 5000..5058		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30801	Strand	+
Start	7151	End	11906
Name	OJ990427_10.9927.C21.o1.gp	Method	AAT/GAP
Start	6396	End	7392
GI	none	Score	1076
Exons	6396..6607, 7040..7392		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30801	Strand	+
Start	7151	End	11906
Name	OJ990427_10.9927.C21.o3.gs	Method	GENSCAN
Start	7151	End	11906
GI	none	Score	.79
Exons	7151..7641, 7771..7968, 8451..8541, 8660..8806, 9093..9194, 9305..10035, 10930..11161, 11745..11906		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30801	Strand	+
Start	7151	End	11906
Name	OJ990427_10.9927.C21.o1.np	Method	AAT/NAP
Start	7553	End	10009
GI	3688186	Score	846
Exons	7553..7641, 7771..7885, 8114..8179, 8269..8357, 8451..8541, 8660..8806, 8923..9015, 9093..9194, 9659..10009		
GI Descrip.	(AL031804) putative protein [Arabidopsis thaliana]		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30802	Strand	-
Start	10610	End	11903
Name	OJ990427_10.9927.C21.o4.tm	Method	TBLASTX:Maize
Start	403	End	9907
GI	none	Score	37
Exons	403..441, 568..648, 9737..9898, 9739..9900, 9742..9903,		

9743..9907

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30802	Strand	-
Start	10610	End	11903
Name	OJ990427_10.9927.C21.o2.tc	Method	TBLASTX:Cress
Start	7541	End	8493
GI	none	Score	122
Exons	7541..7642, 7552..7644, 7553..7645, 7759..7887, 7763..7888, 8109..8177, 8113..8178, 8114..8182, 8268..8363, 8269..8364, 8452..8493		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30802	Strand	-
Start	10610	End	11903
Name	OJ990427_10.9927.C21.o1.ts	Method	TBLASTX:Soybean
Start	7552	End	9898
GI	none	Score	125
Exons	7552..7644, 7553..7645, 7759..7887, 7763..7888, 8113..8178, 8114..8182, 8268..8363, 8269..8364, 8451..8486, 8452..8490, 8487..8540, 8488..8541, 8659..8712, 8660..8752, 8756..8806, 8920..9024, 8925..9005, 9081..9206, 9090..9191, 9743..9898, 9811..9897		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30802	Strand	-
Start	10610	End	11903
Name	OJ990427_10.9927.C21.o2.tm	Method	TBLASTX:Maize
Start	8114	End	8516
GI	none	Score	116
Exons	8114..8182, 8116..8178, 8268..8363, 8269..8364, 8446..8508, 8451..8516, 8452..8508		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30802	Strand	-
Start	10610	End	11903
Name	OJ990427_10.9927.C21.o2.tw	Method	TBLASTX:Wheat
Start	8134	End	8695
GI	none	Score	51
Exons	8134..8175, 8135..8182, 8268..8363, 8269..8364, 8451..8540, 8452..8541, 8660..8695		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30802	Strand	-
Start	10610	End	11903
Name	OJ990427_10.9927.C21.o1.tc	Method	TBLASTX:Cress
Start	8714	End	9197
GI	none	Score	85
Exons	8714..8806, 8717..8812, 8920..9024, 8922..9014, 9090..9191, 9099..9197		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30802	Strand	-
Start	10610	End	11903
Name	OJ990427_10.9927.C21.o1.tm	Method	TBLASTX:Maize
Start	8783	End	9351
GI	none	Score	45

Exons 8783..8806, 8920..9024, 8922..9011, 9090..9197, 9092..9199, 9304..9351, 9305..9346

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30802	Strand	-
Start	10610	End	11903
Name	OJ990427_10.9927.C21.o2.gp	Method	AAT/GAP
Start	10610	End	11903
GI	24051_2.R1084	Score	1096
Exons	10610..11099, 11809..11903		
GI Descrip.	'2739219/emb|CAA04565| 2.0e-20 (AJ001161) rpS28 [Hordeum vulgare]'		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30802	Strand	-
Start	10610	End	11903
Name	OJ990427_10.9927.C21.o3.tc	Method	TBLASTX:Cress
Start	10883	End	11137
GI	none	Score	88
Exons	10883..11008, 10946..11002, 10985..11137, 11004..11135		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30802	Strand	-
Start	10610	End	11903
Name	OJ990427_10.9927.C21.o3.tm	Method	TBLASTX:Maize
Start	10885	End	11102
GI	none	Score	274
Exons	10885..10941, 10887..11102, 10946..11101		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30802	Strand	-
Start	10610	End	11903
Name	OJ990427_10.9927.C21.o2.ts	Method	TBLASTX:Soybean
Start	10894	End	11102
GI	none	Score	108
Exons	10894..10941, 10895..11023, 10941..11102, 10946..11098		

Seq. No.	14412	Seq. ID	OJ990427_10.9927.C21
Gene No.	30802	Strand	-
Start	10610	End	11903
Name	OJ990427_10.9927.C21.o1.tw	Method	TBLASTX:Wheat
Start	10900	End	11109
GI	none	Score	159
Exons	10900..10941, 10904..11020, 10941..11105, 10946..11101, 10989..11105, 11011..11109		

Seq. No.	14413	Seq. ID	OJ990427_10.9927.C22
Gene No.	30803	Strand	-
Start	895	End	1004
Name	OJ990427_10.9927.C22.o1.gs	Method	GENSCAN
Start	895	End	1004
GI	none	Score	.94
Exons	895..1004		

Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30804	Strand	+
Start	5153	End	5737

Name	OJ990427_10.9927.C24.o1.np	Method	AAT/NAP
Start	5153	End	5585
GI	5758304	Score	502
Exons	5153..5585		
GI Descrip.	(AF161704) 40S ribosomal protein S17 [Lycopersicon esculentum]		

Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30804	Strand	+
Start	5153	End	5737
Name	OJ990427_10.9927.C24.o2.gs	Method	GENSCAN
Start	5153	End	5737
GI	none	Score	.44
Exons	5153..5518, 5660..5737		

Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30805	Strand	-
Start	702	End	4799
Name	OJ990427_10.9927.C24.o1.gs	Method	GENSCAN
Start	702	End	4799
GI	none	Score	.53
Exons	702..842, 1518..1579, 2124..2188, 2277..2350, 2522..2599, 2812..2972, 3153..3239, 3330..3508, 4494..4624, 4662..4799		

Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30806	Strand	-
Start	5043	End	5881
Name	OJ990427_10.9927.C24.o1.gp	Method	AAT/GAP
Start	5043	End	5881
GI	5461_1.R1084	Score	1578
Exons	5043..5881		
GI Descrip.	'4587611/gb|AAD25839.1|AC006951_18 3.0e-53 (AC006951) putative 40S ribosomal protein S17 [Arabidopsis thaliana]'		

Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30807	Strand	-
Start	6895	End	10831
Name	OJ990427_10.9927.C24.o3.gs	Method	GENSCAN
Start	6895	End	10831
GI	none	Score	.5
Exons	6895..7458, 7651..7811, 8054..8184, 8645..8816, 8999..9092, 9650..9794, 10740..10831		

Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30808	Strand	-
Start	17498	End	18647
Name	OJ990427_10.9927.C24.o1.tm	Method	TBLASTX:Maize
Start	4996	End	5580
GI	none	Score	608
Exons	4996..5037, 5150..5224, 5152..5523, 5153..5527, 5522..5578, 5527..5580		

Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30808	Strand	-
Start	17498	End	18647
Name	OJ990427_10.9927.C24.o1.ts	Method	TBLASTX:Soybean
Start	5144	End	5524
GI	none	Score	509

Exons	5144..5485, 5152..5499, 5153..5524		
Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30808	Strand	-
Start	17498	End	18647
Name	OJ990427_10.9927.C24.o1.tw	Method	TBLASTX:Wheat
Start	5147	End	5464
GI	none	Score	211
Exons	5147..5224, 5149..5310, 5152..5409, 5153..5464, 5270..5464		
Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30808	Strand	-
Start	17498	End	18647
Name	OJ990427_10.9927.C24.o1.tc	Method	TBLASTX:Cress
Start	5152	End	5527
GI	none	Score	517
Exons	5152..5499, 5153..5527		
Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30808	Strand	-
Start	17498	End	18647
Name	OJ990427_10.9927.C24.o2.gp	Method	AAT/GAP
Start	17219	End	17683
GI	3767869	Score	857
Exons	17219..17683		
Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30808	Strand	-
Start	17498	End	18647
Name	OJ990427_10.9927.C24.o2.tm	Method	TBLASTX:Maize
Start	17357	End	18274
GI	none	Score	43
Exons	17357..17398, 17370..17420, 17516..17794, 17526..17804, 17987..18115, 18005..18112, 18016..18123, 18206..18274, 18208..18273		
Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30808	Strand	-
Start	17498	End	18647
Name	OJ990427_10.9927.C24.o2.ts	Method	TBLASTX:Soybean
Start	17497	End	18390
GI	none	Score	211
Exons	17497..17688, 17507..17701, 17511..17726, 17703..17795, 17705..17809, 17705..17794, 17740..17811, 18016..18114, 18017..18118, 18041..18118, 18208..18387, 18224..18388, 18239..18388, 18244..18390		
Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30808	Strand	-
Start	17498	End	18647
Name	OJ990427_10.9927.C24.o5.gs	Method	GENSCAN
Start	17498	End	18428
GI	none	Score	.85
Exons	17498..17798, 18005..18111, 18208..18428		
Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30808	Strand	-

Start	17498	End	18647
Name	OJ990427_10.9927.C24.o2.np	Method	AAT/NAP
Start	17977	End	18647
GI	5080816	Score	462
Exons	17977..18111, 18208..18647		
GI Descrip.	(AC007258) Putative ATPase [Arabidopsis thaliana]		

Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30808	Strand	-
Start	17498	End	18647
Name	OJ990427_10.9927.C24.o3.gp	Method	AAT/GAP
Start	17990	End	18531
GI	16650_1.R1084	Score	791
Exons	17990..18111, 18208..18531		
GI Descrip.	'5080816/gb|AAD39325.1|AC007258_14 2.0e-77 (AC007258) Putative ATPase [Arabidopsis thaliana]'		

Seq. No.	14414	Seq. ID	OJ990427_10.9927.C24
Gene No.	30808	Strand	-
Start	17498	End	18647
Name	OJ990427_10.9927.C24.o3.tm	Method	TBLASTX:Maize
Start	18381	End	18531
GI	none	Score	151
Exons	18381..18461, 18382..18531, 18383..18526, 18387..18527, 18388..18531		

Seq. No.	14415	Seq. ID	OJ990427_10.9927.C27
Gene No.	30809	Strand	+
Start	156	End	217
Name	OJ990427_10.9927.C27.o1.gs	Method	GENSCAN
Start	156	End	217
GI	none	Score	.53
Exons	156..217		

Seq. No.	14415	Seq. ID	OJ990427_10.9927.C27
Gene No.	30810	Strand	-
Start	1	End	245
Name	OJ990427_10.9927.C27.o1.np	Method	AAT/NAP
Start	1	End	245
GI	6693020	Score	162
Exons	1..245		
GI Descrip.	(AC012375) T22C5.14 [Arabidopsis thaliana]		

Seq. No.	14416	Seq. ID	OJ990427_10.9927.C29
Gene No.	30811	Strand	+
Start	135	End	208
Name	OJ990427_10.9927.C29.o1.gs	Method	GENSCAN
Start	135	End	208
GI	none	Score	.99
Exons	135..208		

Seq. No.	14416	Seq. ID	OJ990427_10.9927.C29
Gene No.	30812	Strand	-
Start	55	End	475
Name	OJ990427_10.9927.C29.o1.gp	Method	AAT/GAP
Start	55	End	475
GI	38782_1.R1084	Score	685

Exons	55..475		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		
Seq. No.	14416	Seq. ID	OJ990427_10.9927.C29
Gene No.	30813	Strand	-
Start	530	End	685
Name	OJ990427_10.9927.C29.o2.gs	Method	GENSCAN
Start	530	End	685
GI	none	Score	.83
Exons	530..685		
Seq. No.	14417	Seq. ID	OJ990427_10.9927.C32
Gene No.	30814	Strand	+
Start	1371	End	1578
Name	OJ990427_10.9927.C32.o1.gp	Method	AAT/GAP
Start	1371	End	1578
GI	none	Score	430
Exons	1371..1578		
Seq. No.	14417	Seq. ID	OJ990427_10.9927.C32
Gene No.	30814	Strand	+
Start	1371	End	1578
Name	OJ990427_10.9927.C32.o1.gs	Method	GENSCAN
Start	1402	End	1578
GI	none	Score	.74
Exons	1402..1578		
Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30815	Strand	+
Start	114	End	2661
Name	OJ990427_10.9927.C33.o1.gp	Method	AAT/GAP
Start	114	End	1131
GI	none	Score	712
Exons	114..321, 429..524, 873..928, 1104..1131		
Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30815	Strand	+
Start	114	End	2661
Name	OJ990427_10.9927.C33.o1.gs	Method	GENSCAN
Start	145	End	2457
GI	none	Score	.78
Exons	145..321, 429..524, 644..669, 873..928, 1561..1740, 2133..2204, 2339..2457		
Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30815	Strand	+
Start	114	End	2661
Name	OJ990427_10.9927.C33.o2.gp	Method	AAT/GAP
Start	2330	End	2661
GI	57980_1.R1084	Score	487
Exons	2330..2661		
GI Descrip.	'5714761/gb|AF173881.1|AF173881 1.0e-117 Oryza sativa subsp. indica serine/threonine protein phosphatase PP2A-4 catalytic subunit (PP2A) gene, complete cds'		
Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33

Gene No.	30816	Strand	+
Start	11898	End	16533
Name	OJ990427_10.9927.C33.o4.gs	Method	GENSCAN
Start	11898	End	13651
GI	none	Score	.75
Exons	11898..12130, 12198..12358, 12549..12670, 12815..13651		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30816	Strand	+
Start	11898	End	16533
Name	OJ990427_10.9927.C33.o2.np	Method	AAT/NAP
Start	13479	End	16533
GI	4206306	Score	2005
Exons	13479..13565, 13898..16533		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30817	Strand	-
Start	3437	End	8054
Name	OJ990427_10.9927.C33.o2.gs	Method	GENSCAN
Start	3437	End	8054
GI	none	Score	.88
Exons	3437..3463, 3816..3923, 4262..4351, 4441..4632, 5303..5369, 5540..5580, 5784..5855, 6098..6169, 6267..6350, 7450..7506, 7959..8054		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30817	Strand	-
Start	3437	End	8054
Name	OJ990427_10.9927.C33.o1.np	Method	AAT/NAP
Start	3514	End	8054
GI	5714762	Score	1375
Exons	3514..3576, 3816..3923, 4262..4351, 4441..4632, 5303..5369, 5540..5580, 5784..5855, 6098..6169, 6267..6350, 7450..7506, 7959..8054		
GI Descrip.	(AF173881) serine/threonine protein phosphatase PP2A-4 catalytic subunit [Oryza sativa subsp. indica]		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30818	Strand	-
Start	8923	End	11800
Name	OJ990427_10.9927.C33.o4.tm	Method	TBLASTX:Maize
Start	205	End	1248
GI	none	Score	171
Exons	205..324, 210..323, 426..524, 428..523, 872..928, 873..926, 1085..1219, 1098..1244, 1102..1248		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30818	Strand	-
Start	8923	End	11800
Name	OJ990427_10.9927.C33.o1.ts	Method	TBLASTX:Soybean
Start	3469	End	4639
GI	none	Score	114
Exons	3469..3585, 3488..3586, 3816..3941, 3816..3929, 4262..4354, 4266..4352, 4420..4632, 4434..4634, 4439..4639		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33

Gene No.	30818	Strand	-
Start	8923	End	11800
Name	OJ990427_10.9927.C33.o1.tc	Method	TBLASTX:Cress
Start	3511	End	8012
GI	none	Score	98
Exons	3511..3585, 3515..3577, 3816..3929, 3820..3924, 4262..4354, 4266..4355, 4420..4632, 4445..4633, 5291..5371, 5301..5369, 5539..5583, 5748..5855, 5788..5856, 6090..6161, 6095..6169, 6096..6170, 6100..6183, 6270..6356, 6271..6351, 7450..7509, 7451..7507, 7950..8012		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30818	Strand	-
Start	8923	End	11800
Name	OJ990427_10.9927.C33.o1.tm	Method	TBLASTX:Maize
Start	3511	End	8012
GI	none	Score	98
Exons	3511..3585, 3515..3577, 3816..3929, 3835..3924, 4262..4354, 4266..4352, 4420..4632, 4441..4617, 4445..4633, 5291..5371, 5301..5369, 5516..5584, 5539..5583, 5748..5855, 5785..5856, 6095..6172, 6096..6173, 6098..6196, 6267..6356, 6268..6351, 7450..7509, 7451..7507, 7950..8012, 7951..8010		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30818	Strand	-
Start	8923	End	11800
Name	OJ990427_10.9927.C33.o2.tw	Method	TBLASTX:Wheat
Start	3816	End	5371
GI	none	Score	90
Exons	3816..3929, 3841..3930, 4260..4352, 4265..4354, 4268..4354, 4420..4632, 4445..4615, 5300..5368, 5300..5371, 5307..5369		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30818	Strand	-
Start	8923	End	11800
Name	OJ990427_10.9927.C33.o2.ts	Method	TBLASTX:Soybean
Start	5300	End	8012
GI	none	Score	98
Exons	5300..5371, 5301..5369, 5302..5370, 5516..5581, 5539..5583, 5748..5855, 5788..5856, 6095..6172, 6096..6173, 6101..6193, 6121..6186, 6211..6333, 6267..6335, 6267..6356, 6268..6351, 7450..7509, 7454..7507, 7956..8012		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30818	Strand	-
Start	8923	End	11800
Name	OJ990427_10.9927.C33.o7.tw	Method	TBLASTX:Wheat
Start	5516	End	6344
GI	none	Score	90
Exons	5516..5584, 5516..5584, 5523..5603, 5548..5607, 5748..5855, 5784..5855, 5785..5856, 6117..6161, 6119..6166, 6123..6167, 6267..6341, 6267..6344, 6268..6342		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30818	Strand	-
Start	8923	End	11800
Name	OJ990427_10.9927.C33.o3.gs	Method	GENSCAN

Start	8923	End	11800
GI	none	Score	.78
Exons	8923..8986, 9128..9356, 10883..10999, 11587..11800		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30819	Strand	
Start	12836	End	13210
Name	OJ990427_10.9927.C33.o6.tw	Method	TBLASTX:Wheat
Start	12836	End	13210
GI	none	Score	190
Exons	12836..13210		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30819	Strand	
Start	12836	End	13210
Name	OJ990427_10.9927.C33.o5.tm	Method	TBLASTX:Maize
Start	12854	End	13123
GI	none	Score	187
Exons	12854..13123		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30820	Strand	
Start	14057	End	14416
Name	OJ990427_10.9927.C33.o5.tw	Method	TBLASTX:Wheat
Start	14057	End	14416
GI	none	Score	86
Exons	14057..14188, 14195..14416, 14215..14415		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30821	Strand	
Start	14648	End	15517
Name	OJ990427_10.9927.C33.o4.tw	Method	TBLASTX:Wheat
Start	14648	End	14974
GI	none	Score	309
Exons	14648..14974, 14680..14973		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30821	Strand	
Start	14648	End	15517
Name	OJ990427_10.9927.C33.o3.tm	Method	TBLASTX:Maize
Start	14749	End	15106
GI	none	Score	362
Exons	14749..15105, 14819..15106		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30821	Strand	
Start	14648	End	15517
Name	OJ990427_10.9927.C33.o1.tw	Method	TBLASTX:Wheat
Start	14975	End	15394
GI	none	Score	461
Exons	14975..15394, 14977..15144, 14987..15391, 15178..15393		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30821	Strand	
Start	14648	End	15517
Name	OJ990427_10.9927.C33.o2.tm	Method	TBLASTX:Maize
Start	15134	End	15517

GI	none	Score	373
Exons	15134..15517, 15155..15406, 15181..15504		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30821	Strand	
Start	14648	End	15517
Name	OJ990427_10.9927.C33.o3.ts	Method	TBLASTX:Soybean
Start	15164	End	15403
GI	none	Score	218
Exons	15164..15403, 15187..15393		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30822	Strand	
Start	15885	End	16312
Name	OJ990427_10.9927.C33.o4.ts	Method	TBLASTX:Soybean
Start	15885	End	16252
GI	none	Score	212
Exons	15885..16244, 16025..16252		

Seq. No.	14418	Seq. ID	OJ990427_10.9927.C33
Gene No.	30822	Strand	
Start	15885	End	16312
Name	OJ990427_10.9927.C33.o3.tw	Method	TBLASTX:Wheat
Start	15887	End	16312
GI	none	Score	315
Exons	15887..16000, 15888..16310, 16028..16312		

Seq. No.	14419	Seq. ID	OJ990427_10.9927.C34
Gene No.	30823	Strand	+
Start	1	End	2011
Name	OJ990427_10.9927.C34.o1.np	Method	AAT/NAP
Start	1	End	2011
GI	4206306	Score	1624
Exons	1..2011		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	14419	Seq. ID	OJ990427_10.9927.C34
Gene No.	30823	Strand	+
Start	1	End	2011
Name	OJ990427_10.9927.C34.o1.ts	Method	TBLASTX:Soybean
Start	155	End	522
GI	none	Score	212
Exons	155..514, 295..522		

Seq. No.	14419	Seq. ID	OJ990427_10.9927.C34
Gene No.	30823	Strand	+
Start	1	End	2011
Name	OJ990427_10.9927.C34.o1.tw	Method	TBLASTX:Wheat
Start	157	End	582
GI	none	Score	315
Exons	157..270, 158..580, 298..582		

Seq. No.	14419	Seq. ID	OJ990427_10.9927.C34
Gene No.	30823	Strand	+
Start	1	End	2011
Name	OJ990427_10.9927.C34.o4.tm	Method	TBLASTX:Maize
Start	524	End	760

GI	none	Score	178
Exons	524..760		
Seq. No.	14419	Seq. ID	OJ990427_10.9927.C34
Gene No.	30823	Strand	+
Start	1	End	2011
Name	OJ990427_10.9927.C34.o2.tm	Method	TBLASTX:Maize
Start	791	End	1057
GI	none	Score	215
Exons	791..1057, 898..1056		
Seq. No.	14419	Seq. ID	OJ990427_10.9927.C34
Gene No.	30823	Strand	+
Start	1	End	2011
Name	OJ990427_10.9927.C34.o2.tw	Method	TBLASTX:Wheat
Start	899	End	1288
GI	none	Score	255
Exons	899..1288, 1165..1206		
Seq. No.	14419	Seq. ID	OJ990427_10.9927.C34
Gene No.	30823	Strand	+
Start	1	End	2011
Name	OJ990427_10.9927.C34.o1.tm	Method	TBLASTX:Maize
Start	1058	End	1420
GI	none	Score	377
Exons	1058..1420, 1150..1419		
Seq. No.	14419	Seq. ID	OJ990427_10.9927.C34
Gene No.	30823	Strand	+
Start	1	End	2011
Name	OJ990427_10.9927.C34.o2.ts	Method	TBLASTX:Soybean
Start	1061	End	1435
GI	none	Score	94
Exons	1061..1204, 1090..1203, 1210..1428, 1211..1435		
Seq. No.	14419	Seq. ID	OJ990427_10.9927.C34
Gene No.	30823	Strand	+
Start	1	End	2011
Name	OJ990427_10.9927.C34.o3.tw	Method	TBLASTX:Wheat
Start	1406	End	2002
GI	none	Score	98
Exons	1406..1525, 1535..1597, 1552..1683, 1553..1750, 1876..1995, 1877..2002		
Seq. No.	14419	Seq. ID	OJ990427_10.9927.C34
Gene No.	30823	Strand	+
Start	1	End	2011
Name	OJ990427_10.9927.C34.o3.tm	Method	TBLASTX:Maize
Start	1451	End	1693
GI	none	Score	191
Exons	1451..1693, 1456..1500, 1546..1692		
Seq. No.	14420	Seq. ID	OJ990427_10.9927.C35
Gene No.	30824	Strand	-
Start	65	End	1264
Name	OJ990427_10.9927.C35.o1.gs	Method	GENSCAN
Start	65	End	1264

GI	none	Score	.83
Exons	65..154, 449..1264		
Seq. No.	14421	Seq. ID	OJ990427_09.9924.C1
Gene No.	30825	Strand	+
Start	164	End	491
Name	OJ990427_09.9924.C1.o1.gs	Method	GENSCAN
Start	164	End	491
GI	none	Score	.82
Exons	164..236, 241..491		
Seq. No.	14422	Seq. ID	OJ990427_09.9924.C2
Gene No.	30826	Strand	+
Start	458	End	627
Name	OJ990427_09.9924.C2.o1.gs	Method	GENSCAN
Start	458	End	627
GI	none	Score	.78
Exons	458..627		
Seq. No.	14423	Seq. ID	OJ990427_09.9924.C3
Gene No.	30827	Strand	-
Start	1981	End	11120
Name	OJ990427_09.9924.C3.o1.gp	Method	AAT/GAP
Start	1763	End	1992
GI	3760905	Score	421
Exons	1763..1992		
Seq. No.	14423	Seq. ID	OJ990427_09.9924.C3
Gene No.	30827	Strand	-
Start	1981	End	11120
Name	OJ990427_09.9924.C3.o1.gs	Method	GENSCAN
Start	1981	End	11120
GI	none	Score	.83
Exons	1981..2316, 2443..2535, 3564..3638, 3772..3942, 4317..4417, 5367..5523, 5624..5893, 6350..6463, 6789..6875, 6897..7064, 7206..7355, 8492..9004, 10225..10444, 11014..11120		
Seq. No.	14423	Seq. ID	OJ990427_09.9924.C3
Gene No.	30827	Strand	-
Start	1981	End	11120
Name	OJ990427_09.9924.C3.o1.np	Method	AAT/NAP
Start	1987	End	8914
GI	6730751	Score	1144
Exons	1987..2310, 2401..2535, 3564..3638, 3772..3942, 4317..4417, 4955..5032, 5367..5523, 5624..5892, 6346..6465, 6702..6788, 6890..7109, 7206..7355, 8492..8782, 8825..8914		
GI Descrip.	(AC016529) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	14423	Seq. ID	OJ990427_09.9924.C3
Gene No.	30827	Strand	-
Start	1981	End	11120
Name	OJ990427_09.9924.C3.o1.tc	Method	TBLASTX:Cress
Start	1987	End	3620
GI	none	Score	93
Exons	1987..2169, 1988..2185, 2092..2313, 2141..2269, 2446..2538, 3558..3620		

Seq. No.	14423	Seq. ID	OJ990427_09.9924.C3
Gene No.	30827	Strand	-
Start	1981	End	11120
Name	OJ990427_09.9924.C3.o3.tm	Method	TBLASTX:Maize
Start	1993	End	2538
GI	none	Score	300
Exons	1993..2253, 1994..2254, 2176..2259, 2278..2322, 2279..2317, 2281..2319, 2470..2538		

Seq. No.	14423	Seq. ID	OJ990427_09.9924.C3
Gene No.	30827	Strand	-
Start	1981	End	11120
Name	OJ990427_09.9924.C3.o1.ts	Method	TBLASTX:Soybean
Start	1997	End	8902
GI	none	Score	130
Exons	1997..2194, 1999..2178, 3558..3638, 3769..3948, 3782..3928, 4314..4412, 4959..5024, 4959..5033, 4960..5037, 5362..5523, 5366..5524, 5618..5893, 5733..5903, 6354..6443, 6361..6447, 6365..6463, 6700..6798, 6704..6766, 6886..7107, 6891..7151, 6894..7112, 7203..7301, 7204..7251, 7284..7355, 7312..7359, 8492..8764, 8493..8747, 8864..8902		

Seq. No.	14423	Seq. ID	OJ990427_09.9924.C3
Gene No.	30827	Strand	-
Start	1981	End	11120
Name	OJ990427_09.9924.C3.o2.gp	Method	AAT/GAP
Start	3550	End	4384
GI	286763	Score	583
Exons	3550..3638, 3772..3942, 4317..4384		

Seq. No.	14423	Seq. ID	OJ990427_09.9924.C3
Gene No.	30827	Strand	-
Start	1981	End	11120
Name	OJ990427_09.9924.C3.o1.tm	Method	TBLASTX:Maize
Start	4314	End	6751
GI	none	Score	70
Exons	4314..4364, 4314..4364, 4365..4415, 4366..4416, 4950..5033, 4957..5034, 4957..5055, 5362..5526, 5366..5524, 5603..5893, 5624..5896, 5625..5897, 5697..5894, 6347..6463, 6348..6482, 6349..6483, 6699..6749, 6704..6751, 6704..6751		

Seq. No.	14423	Seq. ID	OJ990427_09.9924.C3
Gene No.	30827	Strand	-
Start	1981	End	11120
Name	OJ990427_09.9924.C3.o2.tc	Method	TBLASTX:Cress
Start	5699	End	7047
GI	none	Score	128
Exons	5699..5890, 5733..5888, 5760..5894, 6365..6457, 6700..6798, 6897..7046, 6910..7047		

Seq. No.	14423	Seq. ID	OJ990427_09.9924.C3
Gene No.	30827	Strand	-
Start	1981	End	11120
Name	OJ990427_09.9924.C3.o2.tm	Method	TBLASTX:Maize
Start	6889	End	7378
GI	none	Score	266
Exons	6889..7107, 6894..7112, 6897..7112, 7203..7355, 7213..7365,		

7307..7378

Seq. No.	14423	Seq. ID	OJ990427_09.9924.C3
Gene No.	30827	Strand	-
Start	1981	End	11120
Name	OJ990427_09.9924.C3.o4.tm	Method	TBLASTX:Maize
Start	8600	End	8908
GI	none	Score	188
Exons	8600..8773, 8601..8744, 8864..8908		

Seq. No.	14424	Seq. ID	OJ990427_09.9924.C4
Gene No.	30828	Strand	+
Start	56	End	501
Name	OJ990427_09.9924.C4.o1.gs	Method	GENSCAN
Start	56	End	501
GI	none	Score	.89
Exons	56..501		

Seq. No.	14424	Seq. ID	OJ990427_09.9924.C4
Gene No.	30829	Strand	+
Start	1092	End	1354
Name	OJ990427_09.9924.C4.o2.gs	Method	GENSCAN
Start	1092	End	1354
GI	none	Score	.73
Exons	1092..1165, 1177..1354		

Seq. No.	14425	Seq. ID	OJ990427_09.9924.C5
Gene No.	30830	Strand	+
Start	1	End	3580
Name	OJ990427_09.9924.C5.o1.gp	Method	AAT/GAP
Start	1	End	1483
GI	22513_1.R1084	Score	505
Exons	1..46, 182..273, 362..443, 1413..1483		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	14425	Seq. ID	OJ990427_09.9924.C5
Gene No.	30830	Strand	+
Start	1	End	3580
Name	OJ990427_09.9924.C5.o1.np	Method	AAT/NAP
Start	1	End	3580
GI	4539545	Score	416
Exons	1..46, 182..273, 359..443, 1413..1509, 1942..2000, 2107..2192, 2435..2525, 3165..3229, 3495..3580		
GI Descrip.	(Y16644) PRCI [Nicotiana tabacum]		

Seq. No.	14425	Seq. ID	OJ990427_09.9924.C5
Gene No.	30830	Strand	+
Start	1	End	3580
Name	OJ990427_09.9924.C5.o1.gs	Method	GENSCAN
Start	182	End	2201
GI	none	Score	.62
Exons	182..273, 362..443, 477..607, 1413..1509, 1942..2000, 2107..2201		

Seq. No.	14425	Seq. ID	OJ990427_09.9924.C5
Gene No.	30831	Strand	-
Start	3788	End	5159

Name	OJ990427_09.9924.C5.o2.gp	Method	AAT/GAP
Start	3429	End	4310
GI	3776_1.R1084	Score	1530
Exons	3429..4090, 4180..4310		
GI Descrip.	'3894193 2.0e-09 (AC005662) putative strictosidine synthase [Arabidopsis thaliana]'		

Seq. No.	14425	Seq. ID	OJ990427_09.9924.C5
Gene No.	30831	Strand	-
Start	3788	End	5159
Name	OJ990427_09.9924.C5.o2.gs	Method	GENSCAN
Start	3788	End	5159
GI	none	Score	.65
Exons	3788..3891, 3950..4179, 4737..4973, 5089..5159		

Seq. No.	14425	Seq. ID	OJ990427_09.9924.C5
Gene No.	30831	Strand	-
Start	3788	End	5159
Name	OJ990427_09.9924.C5.o2.np	Method	AAT/NAP
Start	3803	End	4985
GI	6572063	Score	219
Exons	3803..4093, 4180..4312, 4737..4985		
GI Descrip.	(AL133452) mucin-like protein [Arabidopsis thaliana]		

Seq. No.	14425	Seq. ID	OJ990427_09.9924.C5
Gene No.	30831	Strand	-
Start	3788	End	5159
Name	OJ990427_09.9924.C5.o1.ts	Method	TBLASTX:Soybean
Start	3825	End	4976
GI	none	Score	129
Exons	3825..4055, 3830..4111, 4171..4314, 4187..4309, 4734..4976, 4736..4975		

Seq. No.	14425	Seq. ID	OJ990427_09.9924.C5
Gene No.	30831	Strand	-
Start	3788	End	5159
Name	OJ990427_09.9924.C5.o1.tm	Method	TBLASTX:Maize
Start	4211	End	4910
GI	none	Score	49
Exons	4211..4246, 4213..4248, 4237..4314, 4249..4314, 4250..4315, 4736..4819, 4736..4840, 4737..4841, 4832..4909, 4833..4910		

Seq. No.	14426	Seq. ID	OJ990427_09.9924.C6
Gene No.	30832	Strand	-
Start	1	End	414
Name	OJ990427_09.9924.C6.o1.gp	Method	AAT/GAP
Start	1	End	414
GI	none	Score	601
Exons	1..111, 195..414		

Seq. No.	14426	Seq. ID	OJ990427_09.9924.C6
Gene No.	30832	Strand	-
Start	1	End	414
Name	OJ990427_09.9924.C6.o1.gs	Method	GENSCAN
Start	17	End	338
GI	none	Score	.72
Exons	17..111, 195..338		

Seq. No.	14427	Seq. ID	OJ990427_09.9924.C9
Gene No.	30833	Strand	+
Start	606	End	2732
Name	OJ990427_09.9924.C9.o1.gs	Method	GENSCAN
Start	606	End	1529
GI	none	Score	1
Exons	606..611, 711..798, 973..1529		

Seq. No.	14427	Seq. ID	OJ990427_09.9924.C9
Gene No.	30833	Strand	+
Start	606	End	2732
Name	OJ990427_09.9924.C9.o1.np	Method	AAT/NAP
Start	673	End	2289
GI	6730752	Score	165
Exons	673..812, 985..1226, 1287..1558, 2002..2289		
GI Descrip.	(AC016529) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14427	Seq. ID	OJ990427_09.9924.C9
Gene No.	30833	Strand	+
Start	606	End	2732
Name	OJ990427_09.9924.C9.o2.gs	Method	GENSCAN
Start	2014	End	2732
GI	none	Score	.58
Exons	2014..2188, 2608..2732		

Seq. No.	14427	Seq. ID	OJ990427_09.9924.C9
Gene No.	30834	Strand	-
Start	3115	End	6620
Name	OJ990427_09.9924.C9.o3.np	Method	AAT/NAP
Start	3115	End	6620
GI	6730751	Score	118
Exons	3115..3142, 5372..5465, 6012..6089, 6424..6620		
GI Descrip.	(AC016529) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14427	Seq. ID	OJ990427_09.9924.C9
Gene No.	30834	Strand	-
Start	3115	End	6620
Name	OJ990427_09.9924.C9.o2.gp	Method	AAT/GAP
Start	5122	End	5921
GI	159_2.R1084	Score	724
Exons	5122..5376, 5770..5921		
GI Descrip.	'1084457/pir||S41086 3.0e-44 elongation factor 1-beta - Rice >gi_432368_dbj_BAA04903_ (D23674) elongation factor 1 beta [Oryza sativa]'		

Seq. No.	14427	Seq. ID	OJ990427_09.9924.C9
Gene No.	30834	Strand	-
Start	3115	End	6620
Name	OJ990427_09.9924.C9.o1.tc	Method	TBLASTX:Cress
Start	5762	End	5918
GI	none	Score	155
Exons	5762..5917, 5763..5918		

Seq. No.	14427	Seq. ID	OJ990427_09.9924.C9
Gene No.	30834	Strand	-
Start	3115	End	6620

Name	OJ990427_09.9924.C9.o1.tw	Method	TBLASTX:Wheat
Start	5767	End	5918
GI	none	Score	98
Exons	5767..5904, 5769..5831, 5771..5917, 5772..5918		

Seq. No.	14427	Seq. ID	OJ990427_09.9924.C9
Gene No.	30834	Strand	-
Start	3115	End	6620
Name	OJ990427_09.9924.C9.o1.ts	Method	TBLASTX:Soybean
Start	5771	End	5918
GI	none	Score	159
Exons	5771..5917, 5772..5918		

Seq. No.	14427	Seq. ID	OJ990427_09.9924.C9
Gene No.	30834	Strand	-
Start	3115	End	6620
Name	OJ990427_09.9924.C9.o2.tm	Method	TBLASTX:Maize
Start	5771	End	5917
GI	none	Score	163
Exons	5771..5917, 5771..5917		

Seq. No.	14427	Seq. ID	OJ990427_09.9924.C9
Gene No.	30834	Strand	-
Start	3115	End	6620
Name	OJ990427_09.9924.C9.o2.np	Method	AAT/NAP
Start	5771	End	6620
GI	6166140	Score	211
Exons	5771..5941, 6567..6620		
GI Descrip.	ELONGATION FACTOR 1-BETA (EF-1-BETA) gi|1084457|pir||S41086 elongation factor 1-beta - Rice gi|432368|dbj|BAA04903| (D23674) elongation factor 1 beta [Oryza sativa]		

Seq. No.	14427	Seq. ID	OJ990427_09.9924.C9
Gene No.	30834	Strand	-
Start	3115	End	6620
Name	OJ990427_09.9924.C9.o1.tm	Method	TBLASTX:Maize
Start	6007	End	6591
GI	none	Score	106
Exons	6007..6090, 6014..6091, 6014..6112, 6419..6583, 6423..6581, 6424..6591		

Seq. No.	14428	Seq. ID	OJ990427_09.9924.C11
Gene No.	30835	Strand	+
Start	295	End	328
Name	OJ990427_09.9924.C11.o1.gs	Method	GENSCAN
Start	295	End	328
GI	none	Score	.7
Exons	295..328		

Seq. No.	14429	Seq. ID	OJ990427_09.9924.C12
Gene No.	30836	Strand	-
Start	40	End	589
Name	OJ990427_09.9924.C12.o1.gp	Method	AAT/GAP
Start	40	End	589
GI	none	Score	1003
Exons	40..589		

Seq. No.	14429	Seq. ID	OJ990427_09.9924.C12
Gene No.	30836	Strand	-
Start	40	End	589
Name	OJ990427_09.9924.C12.o1.gs	Method	GENSCAN
Start	249	End	548
GI	none	Score	.62
Exons	249..548		

Seq. No.	14430	Seq. ID	OJ990427_09.9924.C13
Gene No.	30837	Strand	-
Start	103	End	255
Name	OJ990427_09.9924.C13.o1.gs	Method	GENSCAN
Start	103	End	255
GI	none	Score	.45
Exons	103..255		

Seq. No.	14431	Seq. ID	OJ990427_09.9924.C14
Gene No.	30838	Strand	+
Start	1	End	1240
Name	OJ990427_09.9924.C14.o1.np	Method	AAT/NAP
Start	1	End	526
GI	2213608	Score	203
Exons	1..526		
GI Descrip.	(AC000103) F21J9.2 [Arabidopsis thaliana]		

Seq. No.	14431	Seq. ID	OJ990427_09.9924.C14
Gene No.	30838	Strand	+
Start	1	End	1240
Name	OJ990427_09.9924.C14.o2.np	Method	AAT/NAP
Start	1	End	625
GI	6587849	Score	204
Exons	1..625		
GI Descrip.	(AC006551) Very similar to retrotransposon reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	14431	Seq. ID	OJ990427_09.9924.C14
Gene No.	30838	Strand	+
Start	1	End	1240
Name	OJ990427_09.9924.C14.o1.gs	Method	GENSCAN
Start	35	End	1240
GI	none	Score	.79
Exons	35..1240		

Seq. No.	14432	Seq. ID	OJ990427_09.9924.C15
Gene No.	30839	Strand	-
Start	1	End	3554
Name	OJ990427_09.9924.C15.o1.np	Method	AAT/NAP
Start	1	End	1493
GI	5295955	Score	213
Exons	1..88, 766..880, 1424..1493		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	14432	Seq. ID	OJ990427_09.9924.C15
Gene No.	30839	Strand	-
Start	1	End	3554
Name	OJ990427_09.9924.C15.o1.gs	Method	GENSCAN

Start	193	End	3554
GI	none	Score	.61
Exons	193..345, 757..921, 1356..1493, 2346..2421, 2537..2687, 3085..3205, 3513..3554		

Seq. No.	14433	Seq. ID	OJ990427_09.9924.C16
Gene No.	30840	Strand	+
Start	1	End	881
Name	OJ990427_09.9924.C16.o1.np	Method	AAT/NAP
Start	1	End	881
GI	6907106	Score	420
Exons	1..602, 676..881		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14433	Seq. ID	OJ990427_09.9924.C16
Gene No.	30840	Strand	+
Start	1	End	881
Name	OJ990427_09.9924.C16.o1.tm	Method	TBLASTX:Maize
Start	435	End	785
GI	none	Score	97
Exons	435..647, 436..555, 450..635, 612..713, 651..785, 652..699, 737..784		

Seq. No.	14434	Seq. ID	OJ990427_09.9924.C17
Gene No.	30841	Strand	+
Start	96	End	384
Name	OJ990427_09.9924.C17.o1.gs	Method	GENSCAN
Start	96	End	384
GI	none	Score	.67
Exons	96..384		

Seq. No.	14435	Seq. ID	OJ990427_09.9924.C20
Gene No.	30842	Strand	-
Start	146	End	492
Name	OJ990427_09.9924.C20.o1.gs	Method	GENSCAN
Start	146	End	492
GI	none	Score	.58
Exons	146..156, 305..399, 410..492		

Seq. No.	14436	Seq. ID	OJ990427_09.9924.C22
Gene No.	30843	Strand	+
Start	110	End	1866
Name	OJ990427_09.9924.C22.o1.gs	Method	GENSCAN
Start	110	End	1792
GI	none	Score	.9
Exons	110..247, 354..539, 1406..1792		

Seq. No.	14436	Seq. ID	OJ990427_09.9924.C22
Gene No.	30843	Strand	+
Start	110	End	1866
Name	OJ990427_09.9924.C22.o1.np	Method	AAT/NAP
Start	165	End	1866
GI	4587556	Score	696
Exons	165..247, 354..539, 1406..1866		
GI Descrip.	(AC006577) Similar to gi|1653162 (p)ppGpp 3-pyrophosphohydrolase from Synechocystis sp genome gb|D90911. EST gb|W43807 comes		

from this gene. [Arabidopsis thaliana]

Seq. No.	14436	Seq. ID	OJ990427_09.9924.C22
Gene No.	30843	Strand	+
Start	110	End	1866
Name	OJ990427_09.9924.C22.o1.tc	Method	TBLASTX:Cress
Start	351	End	1718
GI	none	Score	170
Exons	351..542, 351..539, 1384..1683, 1406..1687, 1430..1711, 1482..1718		

Seq. No.	14436	Seq. ID	OJ990427_09.9924.C22
Gene No.	30843	Strand	+
Start	110	End	1866
Name	OJ990427_09.9924.C22.o1.ts	Method	TBLASTX:Soybean
Start	390	End	1861
GI	none	Score	95
Exons	390..542, 393..539, 455..541, 1384..1683, 1406..1687, 1418..1861, 1558..1770, 1572..1859, 1751..1861		

Seq. No.	14436	Seq. ID	OJ990427_09.9924.C22
Gene No.	30843	Strand	+
Start	110	End	1866
Name	OJ990427_09.9924.C22.o1.tm	Method	TBLASTX:Maize
Start	1405	End	1717
GI	none	Score	355
Exons	1405..1683, 1406..1687, 1421..1717		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30844	Strand	+
Start	1	End	2478
Name	OJ990427_09.9924.C23.o1.np	Method	AAT/NAP
Start	1	End	971
GI	4587556	Score	539
Exons	1..165, 246..600, 709..971		
GI Descrip.	(AC006577) Similar to gi|1653162 (p)ppGpp 3-pyrophosphohydrolase from Synechocystis sp genome gb|D90911. EST gb|W43807 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30844	Strand	+
Start	1	End	2478
Name	OJ990427_09.9924.C23.o1.gs	Method	GENSCAN
Start	20	End	2478
GI	none	Score	.44
Exons	20..165, 246..600, 709..917, 2250..2478		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30844	Strand	+
Start	1	End	2478
Name	OJ990427_09.9924.C23.o1.gp	Method	AAT/GAP
Start	734	End	1195
GI	95527_1.R1084	Score	869
Exons	734..1195		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30845	Strand	+
Start	10596	End	14077
Name	OJ990427_09.9924.C23.o3.gs	Method	GENSCAN
Start	10596	End	14077
GI	none	Score	.93
Exons	10596..11240, 11718..11738, 11994..12089, 12517..12617, 13073..13181, 13411..13557, 13598..14077		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30846	Strand	-
Start	17871	End	19342
Name	OJ990427_09.9924.C23.o1.ts	Method	TBLASTX:Soybean
Start	5	End	765
GI	none	Score	174
Exons	5..166, 76..168, 246..458, 247..459, 502..603, 706..765		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30846	Strand	-
Start	17871	End	19342
Name	OJ990427_09.9924.C23.o2.tm	Method	TBLASTX:Maize
Start	71	End	457
GI	none	Score	174
Exons	71..163, 71..172, 73..168, 243..425, 244..426, 427..453, 428..457		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30846	Strand	-
Start	17871	End	19342
Name	OJ990427_09.9924.C23.o1.tc	Method	TBLASTX:Cress
Start	74	End	864
GI	none	Score	110
Exons	74..166, 109..168, 245..445, 245..457, 246..458, 246..458, 247..468, 499..603, 501..599, 706..762, 708..761, 781..864, 783..863		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30846	Strand	-
Start	17871	End	19342
Name	OJ990427_09.9924.C23.o3.tm	Method	TBLASTX:Maize
Start	4203	End	6880
GI	none	Score	239
Exons	4203..4436, 4203..4409, 4283..4435, 6716..6880		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30846	Strand	-
Start	17871	End	19342
Name	OJ990427_09.9924.C23.o1.tm	Method	TBLASTX:Maize
Start	10592	End	11192
GI	none	Score	198
Exons	10592..10759, 10602..10739, 10727..10873, 10728..11045, 10976..11044, 11046..11168, 11050..11073, 11109..11192		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30846	Strand	-
Start	17871	End	19342
Name	OJ990427_09.9924.C23.o2.ts	Method	TBLASTX:Soybean

Start	10722	End	11045
GI	none	Score	161
Exons	10722..10886, 10745..10807, 10974..11045		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30846	Strand	-
Start	17871	End	19342
Name	OJ990427_09.9924.C23.o2.tc	Method	TBLASTX:Cress
Start	10755	End	11147
GI	none	Score	156
Exons	10755..10877, 10757..10795, 10974..11018, 10976..11011, 11029..11061, 11034..11147		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30846	Strand	-
Start	17871	End	19342
Name	OJ990427_09.9924.C23.o4.tm	Method	TBLASTX:Maize
Start	11991	End	17289
GI	none	Score	102
Exons	11991..12092, 11993..12091, 12183..12260, 12185..12253, 12383..12505, 12404..12505, 12405..12506, 16519..16551, 16557..16616, 16561..16623, 16716..16739, 16721..16738, 16735..16788, 16738..16794, 17188..17289		

Seq. No.	14437	Seq. ID	OJ990427_09.9924.C23
Gene No.	30846	Strand	-
Start	17871	End	19342
Name	OJ990427_09.9924.C23.o5.gs	Method	GENSCAN
Start	17871	End	19342
GI	none	Score	.94
Exons	17871..17914, 18000..18145, 18564..19342		

Seq. No.	14438	Seq. ID	OJ990427_09.9924.C24
Gene No.	30847	Strand	-
Start	500	End	685
Name	OJ990427_09.9924.C24.o1.gs	Method	GENSCAN
Start	500	End	685
GI	none	Score	.48
Exons	500..601, 621..685		

Seq. No.	14439	Seq. ID	OJ990427_09.9924.C25
Gene No.	30848	Strand	-
Start	342	End	469
Name	OJ990427_09.9924.C25.o1.gs	Method	GENSCAN
Start	342	End	469
GI	none	Score	.97
Exons	342..469		

Seq. No.	14440	Seq. ID	OJ990427_09.9924.C27
Gene No.	30849	Strand	+
Start	1	End	638
Name	OJ990427_09.9924.C27.o1.np	Method	AAT/NAP
Start	1	End	638
GI	1176181	Score	891
Exons	1..638		
GI Descrip.	PUTATIVE PROTEASE HI0419 gi|1073949|pir||G64066 collagenase (prtC) homolog - Haemophilus influenzae (strain Rd KW20)		

gi|1573393 (U32725) protease, putative [Haemophilus influenzae Rd]

Seq. No.	14440	Seq. ID	OJ990427_09.9924.C27
Gene No.	30849	Strand	+
Start	1	End	638
Name	OJ990427_09.9924.C27.o1.gs	Method	GENSCAN
Start	23	End	542
GI	none	Score	.97
Exons	23..542		

Seq. No.	14441	Seq. ID	OJ990427_09.9924.C28
Gene No.	30850	Strand	+
Start	70	End	261
Name	OJ990427_09.9924.C28.o1.gs	Method	GENSCAN
Start	70	End	261
GI	none	Score	.58
Exons	70..261		

Seq. No.	14442	Seq. ID	OJ990427_09.9924.C29
Gene No.	30851	Strand	+
Start	1	End	279
Name	OJ990427_09.9924.C29.o1.np	Method	AAT/NAP
Start	1	End	279
GI	1176189	Score	146
Exons	1..279		
GI Descrip.	HYPOTHETICAL 15.2 KD PROTEIN IN RPLM-HHOA INTERGENIC REGION (O134) gi|606172|gb|AAA58035.1| (U18997) ORF_o134 [Escherichia coli] gi|1789628 (AE000402) orf, hypothetical protein [Escherichia coli]		

Seq. No.	14443	Seq. ID	OJ990427_09.9924.C32
Gene No.	30852	Strand	+
Start	1	End	2784
Name	OJ990427_09.9924.C32.o1.np	Method	AAT/NAP
Start	1	End	2784
GI	5852093	Score	44
Exons	1..66, 928..1037, 2756..2784		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	14443	Seq. ID	OJ990427_09.9924.C32
Gene No.	30853	Strand	-
Start	1229	End	9128
Name	OJ990427_09.9924.C32.o2.np	Method	AAT/NAP
Start	1229	End	9128
GI	5852093	Score	94
Exons	1229..1356, 9093..9128		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	14443	Seq. ID	OJ990427_09.9924.C32
Gene No.	30853	Strand	-
Start	1229	End	9128
Name	OJ990427_09.9924.C32.o1.gp	Method	AAT/GAP
Start	5886	End	6573
GI	19595_1.R1084	Score	1319
Exons	5886..6573		
GI Descrip.	'3608481 2.0e-49 (AF088913) ribosomal protein L27a [Petunia x		

hybrida]'

Seq. No.	14443	Seq. ID	OJ990427_09.9924.C32
Gene No.	30853	Strand	-
Start	1229	End	9128
Name	OJ990427_09.9924.C32.o1.ts	Method	TBLASTX:Soybean
Start	6015	End	6538
GI	none	Score	69
Exons	6015..6071, 6130..6186, 6131..6187, 6172..6537, 6173..6538		

Seq. No.	14443	Seq. ID	OJ990427_09.9924.C32
Gene No.	30853	Strand	-
Start	1229	End	9128
Name	OJ990427_09.9924.C32.o1.tw	Method	TBLASTX:Wheat
Start	6026	End	6561
GI	none	Score	159
Exons	6026..6238, 6130..6249, 6190..6240, 6289..6546, 6293..6556, 6538..6561		

Seq. No.	14443	Seq. ID	OJ990427_09.9924.C32
Gene No.	30853	Strand	-
Start	1229	End	9128
Name	OJ990427_09.9924.C32.o3.np	Method	AAT/NAP
Start	6100	End	6537
GI	3608481	Score	615
Exons	6100..6537		
GI Descrip.	(AF088913) ribosomal protein L27a [Petunia x hybrida]		

Seq. No.	14443	Seq. ID	OJ990427_09.9924.C32
Gene No.	30853	Strand	-
Start	1229	End	9128
Name	OJ990427_09.9924.C32.o1.tc	Method	TBLASTX:Cress
Start	6130	End	6550
GI	none	Score	65
Exons	6130..6186, 6131..6184, 6185..6238, 6187..6249, 6289..6549, 6293..6550		

Seq. No.	14443	Seq. ID	OJ990427_09.9924.C32
Gene No.	30853	Strand	-
Start	1229	End	9128
Name	OJ990427_09.9924.C32.o1.tm	Method	TBLASTX:Maize
Start	6130	End	6585
GI	none	Score	557
Exons	6130..6585, 6131..6556		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30854	Strand	+
Start	1	End	9775
Name	OJ990427_09.9924.C33.o1.np	Method	AAT/NAP
Start	1	End	6275
GI	6648172	Score	1680
Exons	1..1257, 1343..1438, 1522..1611, 1703..1807, 1994..2053, 2161..2223, 2307..2402, 3212..3376, 4334..4507, 4786..4884, 5944..6275		
GI Descrip.	(AC010926) putative exportin, tRNA (nuclear export receptor for tRNAs) [Arabidopsis thaliana]		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30854	Strand	+
Start	1	End	9775
Name	OJ990427_09.9924.C33.o1.gs	Method	GENSCAN
Start	98	End	9775
GI	none	Score	.76
Exons	98..316, 469..1257, 1522..1611, 1703..1807, 1994..2053, 2161..2223, 3212..3376, 4334..4507, 4617..4682, 4786..4884, 5944..6087, 7200..7264, 7557..7647, 9363..9440, 9638..9775		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30855	Strand	+
Start	14859	End	21876
Name	OJ990427_09.9924.C33.o3.gs	Method	GENSCAN
Start	14859	End	21876
GI	none	Score	.76
Exons	14859..15314, 16494..16629, 17794..17930, 18669..19352, 19782..19955, 20041..20225, 21028..21040, 21733..21876		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30855	Strand	+
Start	14859	End	21876
Name	OJ990427_09.9924.C33.o2.np	Method	AAT/NAP
Start	14919	End	19367
GI	4006829	Score	1076
Exons	14919..15314, 16494..16629, 17794..17930, 18669..19367		
GI Descrip.	(AC005970) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30856	Strand	+
Start	23951	End	25196
Name	OJ990427_09.9924.C33.o3.np	Method	AAT/NAP
Start	23951	End	25196
GI	6721543	Score	118
Exons	23951..24081, 25118..25196		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30857	Strand	-
Start	12566	End	13486
Name	OJ990427_09.9924.C33.o2.gs	Method	GENSCAN
Start	12566	End	13486
GI	none	Score	.49
Exons	12566..12654, 13052..13179, 13428..13486		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30858	Strand	-
Start	23825	End	25559
Name	OJ990427_09.9924.C33.o2.tm	Method	TBLASTX:Maize
Start	1993	End	3268
GI	none	Score	92
Exons	1993..2070, 1994..2071, 2158..2253, 2160..2228, 2304..2447, 2304..2399, 2309..2458, 3209..3268		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30858	Strand	-
Start	23825	End	25559

Name	OJ990427_09.9924.C33.o2.tw	Method	TBLASTX:Wheat
Start	15062	End	15290
GI	none	Score	192
Exons	15062..15286, 15087..15281, 15114..15290		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30858	Strand	-
Start	23825	End	25559
Name	OJ990427_09.9924.C33.o1.ts	Method	TBLASTX:Soybean
Start	15087	End	19137
GI	none	Score	281
Exons	15087..15314, 15089..15319, 16497..16631, 17801..17950, 17802..17930, 18668..18904, 18669..19001, 19024..19089, 19102..19137		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30858	Strand	-
Start	23825	End	25559
Name	OJ990427_09.9924.C33.o1.tc	Method	TBLASTX:Cress
Start	15105	End	19089
GI	none	Score	97
Exons	15105..15230, 15261..15314, 16494..16631, 17807..17929, 17808..17930, 18669..18983, 18671..18904, 19024..19089		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30858	Strand	-
Start	23825	End	25559
Name	OJ990427_09.9924.C33.o3.tm	Method	TBLASTX:Maize
Start	15165	End	16631
GI	none	Score	109
Exons	15165..15251, 15176..15250, 15245..15319, 15249..15314, 16494..16631		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30858	Strand	-
Start	23825	End	25559
Name	OJ990427_09.9924.C33.o1.tm	Method	TBLASTX:Maize
Start	17808	End	19083
GI	none	Score	152
Exons	17808..17930, 17810..17926, 18668..18904, 18669..19001, 19024..19083		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30858	Strand	-
Start	23825	End	25559
Name	OJ990427_09.9924.C33.o1.tw	Method	TBLASTX:Wheat
Start	18716	End	19128
GI	none	Score	376
Exons	18716..18904, 18717..19001, 19024..19128		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30858	Strand	-
Start	23825	End	25559
Name	OJ990427_09.9924.C33.o4.gs	Method	GENSCAN
Start	23825	End	25417
GI	none	Score	.4
Exons	23825..24043, 24600..24766, 24902..25417		

Seq. No.	14444	Seq. ID	OJ990427_09.9924.C33
Gene No.	30858	Strand	-
Start	23825	End	25559
Name	OJ990427_09.9924.C33.o4.np	Method	AAT/NAP
Start	24885	End	25559
GI	5441880	Score	583
Exons	24885..25119, 25235..25372, 25538..25559		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14445	Seq. ID	OJ990427_09.9924.C34
Gene No.	30859	Strand	-
Start	57	End	3830
Name	OJ990427_09.9924.C34.o1.gs	Method	GENSCAN
Start	57	End	3785
GI	none	Score	.7
Exons	57..84, 175..272, 382..426, 519..592, 618..778, 855..1153, 1243..1653, 1828..2074, 2180..2330, 2834..3009, 3211..3785		

Seq. No.	14445	Seq. ID	OJ990427_09.9924.C34
Gene No.	30859	Strand	-
Start	57	End	3830
Name	OJ990427_09.9924.C34.o1.np	Method	AAT/NAP
Start	162	End	3463
GI	5441880	Score	2384
Exons	162..272, 519..778, 855..1153, 1738..2074, 2180..2330, 2834..3149, 3408..3463		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14445	Seq. ID	OJ990427_09.9924.C34
Gene No.	30859	Strand	-
Start	57	End	3830
Name	OJ990427_09.9924.C34.o1.gp	Method	AAT/GAP
Start	527	End	1027
GI	LIB3475-007-P1-K1-G8	Score	786
Exons	527..778, 855..1027		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	14445	Seq. ID	OJ990427_09.9924.C34
Gene No.	30859	Strand	-
Start	57	End	3830
Name	OJ990427_09.9924.C34.o1.tw	Method	TBLASTX:Wheat
Start	3633	End	3830
GI	none	Score	82
Exons	3633..3830, 3715..3813		

Seq. No.	14446	Seq. ID	OJ990427_09.9924.C35
Gene No.	30860	Strand	-
Start	1	End	1116
Name	OJ990427_09.9924.C35.o1.np	Method	AAT/NAP
Start	1	End	1116

GI	5441880	Score	1763
Exons	1..66, 111..1116		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14446	Seq. ID	OJ990427_09.9924.C35
Gene No.	30860	Strand	-
Start	1	End	1116
Name	OJ990427_09.9924.C35.o1.gp	Method	AAT/GAP
Start	81	End	512
GI	5701669	Score	853
Exons	81..512		
GI Descrip.	5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14446	Seq. ID	OJ990427_09.9924.C35
Gene No.	30861	Strand	-
Start	1129	End	2187
Name	OJ990427_09.9924.C35.o1.tm	Method	TBLASTX:Maize
Start	1	End	555
GI	none	Score	151
Exons	1..30, 94..393, 155..376, 427..555, 449..547		

Seq. No.	14446	Seq. ID	OJ990427_09.9924.C35
Gene No.	30861	Strand	-
Start	1129	End	2187
Name	OJ990427_09.9924.C35.o1.tw	Method	TBLASTX:Wheat
Start	1	End	261
GI	none	Score	43
Exons	1..57, 5..61, 55..252, 67..261		

Seq. No.	14446	Seq. ID	OJ990427_09.9924.C35
Gene No.	30861	Strand	-
Start	1129	End	2187
Name	OJ990427_09.9924.C35.o2.np	Method	AAT/NAP
Start	1129	End	2187
GI	6721543	Score	125
Exons	1129..1244, 2057..2187		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	14446	Seq. ID	OJ990427_09.9924.C35
Gene No.	30861	Strand	-
Start	1129	End	2187
Name	OJ990427_09.9924.C35.o2.gp	Method	AAT/GAP
Start	2021	End	2173
GI	7406_1.R1084	Score	226
Exons	2021..2173		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	14447	Seq. ID	OJ990427_09.9924.C36
Gene No.	30862	Strand	+
Start	1868	End	2508
Name	OJ990427_09.9924.C36.o2.gs	Method	GENSCAN
Start	1868	End	2508

GI	none	Score	.69
Exons	1868..2021, 2117..2508		

Seq. No.	14447	Seq. ID	OJ990427_09.9924.C36
Gene No.	30863	Strand	-
Start	1	End	1569
Name	OJ990427_09.9924.C36.o1.np	Method	AAT/NAP
Start	1	End	1569
GI	4678270	Score	105
Exons	1..19, 1482..1569		
GI Descrip.	(AL049660) protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	14447	Seq. ID	OJ990427_09.9924.C36
Gene No.	30863	Strand	-
Start	1	End	1569
Name	OJ990427_09.9924.C36.o1.gs	Method	GENSCAN
Start	41	End	947
GI	none	Score	.52
Exons	41..201, 880..947		

Seq. No.	14448	Seq. ID	OJ990427_09.9924.C37
Gene No.	30864	Strand	+
Start	1	End	1122
Name	OJ990427_09.9924.C37.o1.np	Method	AAT/NAP
Start	1	End	1122
GI	2583130	Score	747
Exons	1..1122		
GI Descrip.	(AC002387) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	14448	Seq. ID	OJ990427_09.9924.C37
Gene No.	30864	Strand	+
Start	1	End	1122
Name	OJ990427_09.9924.C37.o1.gs	Method	GENSCAN
Start	13	End	957
GI	none	Score	.76
Exons	13..957		

Seq. No.	14448	Seq. ID	OJ990427_09.9924.C37
Gene No.	30864	Strand	+
Start	1	End	1122
Name	OJ990427_09.9924.C37.o2.tw	Method	TBLASTX:Wheat
Start	229	End	471
GI	none	Score	217
Exons	229..471, 360..470		

Seq. No.	14448	Seq. ID	OJ990427_09.9924.C37
Gene No.	30864	Strand	+
Start	1	End	1122
Name	OJ990427_09.9924.C37.o2.ts	Method	TBLASTX:Soybean
Start	276	End	501
GI	none	Score	182
Exons	276..473, 277..501		

Seq. No.	14448	Seq. ID	OJ990427_09.9924.C37
Gene No.	30864	Strand	+
Start	1	End	1122

Name	OJ990427_09.9924.C37.o1.tm	Method	TBLASTX:Maize
Start	376	End	846
GI	none	Score	95
Exons	376..534, 562..846		

Seq. No.	14448	Seq. ID	OJ990427_09.9924.C37
Gene No.	30864	Strand	+
Start	1	End	1122
Name	OJ990427_09.9924.C37.o1.tw	Method	TBLASTX:Wheat
Start	472	End	897
GI	none	Score	392
Exons	472..897, 487..894, 711..896		

Seq. No.	14448	Seq. ID	OJ990427_09.9924.C37
Gene No.	30864	Strand	+
Start	1	End	1122
Name	OJ990427_09.9924.C37.o1.ts	Method	TBLASTX:Soybean
Start	550	End	849
GI	none	Score	204
Exons	550..849, 588..791		

Seq. No.	14449	Seq. ID	OJ990427_09.9924.C38
Gene No.	30865	Strand	-
Start	397	End	468
Name	OJ990427_09.9924.C38.o1.gs	Method	GENSCAN
Start	397	End	468
GI	none	Score	.5
Exons	397..468		

Seq. No.	14450	Seq. ID	OJ990427_09.9924.C40
Gene No.	30866	Strand	-
Start	1	End	903
Name	OJ990427_09.9924.C40.o1.np	Method	AAT/NAP
Start	1	End	903
GI	4206306	Score	385
Exons	1..50, 433..903		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	14450	Seq. ID	OJ990427_09.9924.C40
Gene No.	30866	Strand	-
Start	1	End	903
Name	OJ990427_09.9924.C40.o1.gs	Method	GENSCAN
Start	245	End	843
GI	none	Score	.81
Exons	245..265, 467..666, 738..843		

Seq. No.	14450	Seq. ID	OJ990427_09.9924.C40
Gene No.	30866	Strand	-
Start	1	End	903
Name	OJ990427_09.9924.C40.o1.ts	Method	TBLASTX:Soybean
Start	434	End	762
GI	none	Score	41
Exons	434..532, 486..533, 547..762, 635..760		

Seq. No.	14450	Seq. ID	OJ990427_09.9924.C40
Gene No.	30866	Strand	-
Start	1	End	903

Name	OJ990427_09.9924.C40.o1.tw	Method	TBLASTX:Wheat
Start	458	End	872
GI	none	Score	105
Exons	458..544, 547..765, 556..765,	560..775,	768..872, 786..869

Seq. No.	14450	Seq. ID	OJ990427_09.9924.C40
Gene No.	30866	Strand	-
Start	1	End	903
Name	OJ990427_09.9924.C40.o1.tm	Method	TBLASTX:Maize
Start	547	End	902
GI	none	Score	124
Exons	547..765, 560..766, 703..882,	761..898,	768..902

Seq. No.	14451	Seq. ID	OJ990427_09.9924.C42
Gene No.	30867	Strand	+
Start	135	End	692
Name	OJ990427_09.9924.C42.o1.gs	Method	GENSCAN
Start	135	End	692
GI	none	Score	.74
Exons	135..476, 557..692		

Seq. No.	14452	Seq. ID	OJ990427_09.9924.C43
Gene No.	30868	Strand	+
Start	1	End	2694
Name	OJ990427_09.9924.C43.o1.np	Method	AAT/NAP
Start	1	End	2694
GI	5295955	Score	169
Exons	1..50, 861..978, 2623..2694		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	14452	Seq. ID	OJ990427_09.9924.C43
Gene No.	30869	Strand	-
Start	1332	End	2071
Name	OJ990427_09.9924.C43.o2.np	Method	AAT/NAP
Start	1332	End	2071
GI	6815052	Score	501
Exons	1332..1450, 1732..1806, 1888..2071		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	14453	Seq. ID	OJ990427_09.9924.C45
Gene No.	30870	Strand	+
Start	72	End	418
Name	OJ990427_09.9924.C45.o1.gs	Method	GENSCAN
Start	72	End	418
GI	none	Score	.42
Exons	72..418		

Seq. No.	14454	Seq. ID	OJ990427_09.9924.C52
Gene No.	30871	Strand	+
Start	1	End	445
Name	OJ990427_09.9924.C52.o1.np	Method	AAT/NAP
Start	1	End	445
GI	4544372	Score	188
Exons	1..445		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14454	Seq. ID	OJ990427_09.9924.C52
Gene No.	30872	Strand	-
Start	85	End	257
Name	OJ990427_09.9924.C52.o1.gs	Method	GENSCAN
Start	85	End	257
GI	none	Score	.55
Exons	85..257		

Seq. No.	14455	Seq. ID	OJ990427_09.9924.C53
Gene No.	30873	Strand	+
Start	3	End	80
Name	OJ990427_09.9924.C53.o1.gs	Method	GENSCAN
Start	3	End	80
GI	none	Score	.61
Exons	3..80		

Seq. No.	14456	Seq. ID	OJ990427_09.9924.C54
Gene No.	30874	Strand	+
Start	148	End	210
Name	OJ990427_09.9924.C54.o1.gs	Method	GENSCAN
Start	148	End	210
GI	none	Score	.54
Exons	148..210		

Seq. No.	14456	Seq. ID	OJ990427_09.9924.C54
Gene No.	30875	Strand	-
Start	1	End	392
Name	OJ990427_09.9924.C54.o1.np	Method	AAT/NAP
Start	1	End	392
GI	6523547	Score	121
Exons	1..392		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	14457	Seq. ID	OJ990427_09.9924.C55
Gene No.	30876	Strand	+
Start	1	End	409
Name	OJ990427_09.9924.C55.o1.np	Method	AAT/NAP
Start	1	End	409
GI	4544372	Score	178
Exons	1..409		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14457	Seq. ID	OJ990427_09.9924.C55
Gene No.	30877	Strand	-
Start	179	End	409
Name	OJ990427_09.9924.C55.o1.tw	Method	TBLASTX:Wheat
Start	172	End	408
GI	none	Score	81
Exons	172..228, 177..218, 223..408, 230..397, 231..407		

Seq. No.	14457	Seq. ID	OJ990427_09.9924.C55
Gene No.	30877	Strand	-
Start	179	End	409
Name	OJ990427_09.9924.C55.o1.gs	Method	GENSCAN

Start	179	End	408
GI	none	Score	.65
Exons	179..214, 279..408		

Seq. No.	14457	Seq. ID	OJ990427_09.9924.C55
Gene No.	30877	Strand	-
Start	179	End	409
Name	OJ990427_09.9924.C55.o1.tm	Method	TBLASTX:Maize
Start	226	End	409
GI	none	Score	229
Exons	226..402, 231..401, 235..402, 251..409		

Seq. No.	14458	Seq. ID	OJ990427_09.9924.C58
Gene No.	30878	Strand	+
Start	29	End	569
Name	OJ990427_09.9924.C58.o1.gs	Method	GENSCAN
Start	29	End	569
GI	none	Score	.68
Exons	29..72, 423..569		

Seq. No.	14459	Seq. ID	OJ990427_09.9924.C59
Gene No.	30879	Strand	+
Start	211	End	528
Name	OJ990427_09.9924.C59.o1.gs	Method	GENSCAN
Start	211	End	528
GI	none	Score	.78
Exons	211..341, 400..528		

Seq. No.	14460	Seq. ID	OJ990427_09.9924.C60
Gene No.	30880	Strand	-
Start	117	End	209
Name	OJ990427_09.9924.C60.o1.gs	Method	GENSCAN
Start	117	End	209
GI	none	Score	.94
Exons	117..209		

Seq. No.	14461	Seq. ID	OJ990517_02.9927.C1
Gene No.	30881	Strand	-
Start	192	End	405
Name	OJ990517_02.9927.C1.o1.gs	Method	GENSCAN
Start	192	End	405
GI	none	Score	.72
Exons	192..405		

Seq. No.	14462	Seq. ID	OJ990517_02.9927.C3
Gene No.	30882	Strand	+
Start	335	End	719
Name	OJ990517_02.9927.C3.o1.np	Method	AAT/NAP
Start	335	End	719
GI	6907087	Score	268
Exons	335..719		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14463	Seq. ID	OJ990517_02.9927.C4
Gene No.	30883	Strand	+

Start	662	End	1043
Name	OJ990517_02.9927.C4.o1.gp	Method	AAT/GAP
Start	662	End	1043
GI	uC-osflcyp033a04b1	Score	639
Exons	662..1043		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14463	Seq. ID	OJ990517_02.9927.C4
Gene No.	30884	Strand	-
Start	595	End	2120
Name	OJ990517_02.9927.C4.o1.np	Method	AAT/NAP
Start	595	End	2120
GI	4680186	Score	333
Exons	595..795, 2058..2120		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	14464	Seq. ID	OJ990517_02.9927.C5
Gene No.	30885	Strand	+
Start	134	End	515
Name	OJ990517_02.9927.C5.o1.gp	Method	AAT/GAP
Start	134	End	515
GI	uC-osflcyp033a04b1	Score	627
Exons	134..515		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14464	Seq. ID	OJ990517_02.9927.C5
Gene No.	30886	Strand	-
Start	67	End	1161
Name	OJ990517_02.9927.C5.o1.np	Method	AAT/NAP
Start	67	End	1161
GI	4680186	Score	356
Exons	67..267, 1105..1161		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	14465	Seq. ID	OJ990517_02.9927.C6
Gene No.	30887	Strand	-
Start	220	End	537
Name	OJ990517_02.9927.C6.o1.gs	Method	GENSCAN
Start	220	End	537
GI	none	Score	.97
Exons	220..537		

Seq. No.	14466	Seq. ID	OJ990517_02.9927.C8
Gene No.	30888	Strand	-
Start	1	End	489
Name	OJ990517_02.9927.C8.o1.np	Method	AAT/NAP
Start	1	End	489
GI	4680179	Score	362
Exons	1..489		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14466	Seq. ID	OJ990517_02.9927.C8
Gene No.	30888	Strand	-
Start	1	End	489
Name	OJ990517_02.9927.C8.o1.gs	Method	GENSCAN

Start	27	End	411
GI	none	Score	.8
Exons	27..411		

Seq. No.	14466	Seq. ID	OJ990517_02.9927.C8
Gene No.	30888	Strand	-
Start	1	End	489
Name	OJ990517_02.9927.C8.o1.tw	Method	TBLASTX:Wheat
Start	148	End	484
GI	none	Score	99
Exons	148..483, 305..484		

Seq. No.	14466	Seq. ID	OJ990517_02.9927.C8
Gene No.	30888	Strand	-
Start	1	End	489
Name	OJ990517_02.9927.C8.o1.tm	Method	TBLASTX:Maize
Start	193	End	484
GI	none	Score	92
Exons	193..483, 368..484, 425..484		

Seq. No.	14467	Seq. ID	OJ990517_02.9927.C9
Gene No.	30889	Strand	-
Start	1	End	351
Name	OJ990517_02.9927.C9.o1.np	Method	AAT/NAP
Start	1	End	351
GI	6705984	Score	317
Exons	1..351		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	14467	Seq. ID	OJ990517_02.9927.C9
Gene No.	30889	Strand	-
Start	1	End	351
Name	OJ990517_02.9927.C9.o1.tw	Method	TBLASTX:Wheat
Start	2	End	343
GI	none	Score	58
Exons	2..67, 6..68, 25..69, 25..69, 68..292, 71..343, 231..329		

Seq. No.	14467	Seq. ID	OJ990517_02.9927.C9
Gene No.	30889	Strand	-
Start	1	End	351
Name	OJ990517_02.9927.C9.o1.gs	Method	GENSCAN
Start	206	End	271
GI	none	Score	.92
Exons	206..271		

Seq. No.	14468	Seq. ID	OJ990517_02.9927.C10
Gene No.	30890	Strand	+
Start	3228	End	3478
Name	OJ990517_02.9927.C10.o2.gs	Method	GENSCAN
Start	3228	End	3478
GI	none	Score	.41
Exons	3228..3381, 3417..3478		

Seq. No.	14468	Seq. ID	OJ990517_02.9927.C10
Gene No.	30891	Strand	+
Start	4188	End	4312
Name	OJ990517_02.9927.C10.o1.np	Method	AAT/NAP

Start	3977	End	4258
GI	4680203	Score	74
Exons	3977..4258		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	14468	Seq. ID	OJ990517_02.9927.C10
Gene No.	30891	Strand	+
Start	4188	End	4312
Name	OJ990517_02.9927.C10.o3.gs	Method	GENSCAN
Start	4188	End	4312
GI	none	Score	.87
Exons	4188..4312		

Seq. No.	14468	Seq. ID	OJ990517_02.9927.C10
Gene No.	30892	Strand	-
Start	144	End	647
Name	OJ990517_02.9927.C10.o1.gs	Method	GENSCAN
Start	144	End	647
GI	none	Score	.53
Exons	144..260, 423..647		

Seq. No.	14469	Seq. ID	OJ990517_02.9927.C11
Gene No.	30893	Strand	+
Start	609	End	3072
Name	OJ990517_02.9927.C11.o1.gs	Method	GENSCAN
Start	609	End	2914
GI	none	Score	.59
Exons	609..722, 795..853, 1139..1795, 1843..1918, 2348..2914		

Seq. No.	14469	Seq. ID	OJ990517_02.9927.C11
Gene No.	30893	Strand	+
Start	609	End	3072
Name	OJ990517_02.9927.C11.o1.np	Method	AAT/NAP
Start	1139	End	3072
GI	4680203	Score	1266
Exons	1139..2703, 2746..2838, 2992..3072		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	14469	Seq. ID	OJ990517_02.9927.C11
Gene No.	30893	Strand	+
Start	609	End	3072
Name	OJ990517_02.9927.C11.o2.tw	Method	TBLASTX:Wheat
Start	1493	End	2043
GI	none	Score	152
Exons	1493..1837, 1732..1830, 1843..1890, 1938..2033, 1939..2043		

Seq. No.	14469	Seq. ID	OJ990517_02.9927.C11
Gene No.	30893	Strand	+
Start	609	End	3072
Name	OJ990517_02.9927.C11.o2.ts	Method	TBLASTX:Soybean
Start	1772	End	2189
GI	none	Score	95
Exons	1772..1837, 1774..1836, 1842..1892, 1941..2096, 1942..2088, 2100..2189		

Seq. No.	14469	Seq. ID	OJ990517_02.9927.C11
Gene No.	30893	Strand	+

Start	609	End	3072
Name	OJ990517_02.9927.C11.o1.tc	Method	TBLASTX:Cress
Start	1938	End	2267
GI	none	Score	119
Exons	1938..2075, 1939..2085, 2103..2267, 2111..2170, 2121..2225, 2192..2266		

Seq. No.	14469	Seq. ID	OJ990517_02.9927.C11
Gene No.	30893	Strand	+
Start	609	End	3072
Name	OJ990517_02.9927.C11.o1.tw	Method	TBLASTX:Wheat
Start	2056	End	2513
GI	none	Score	40
Exons	2056..2112, 2064..2111, 2109..2213, 2120..2206, 2205..2315, 2214..2330, 2218..2316, 2222..2389, 2343..2513, 2347..2508		

Seq. No.	14469	Seq. ID	OJ990517_02.9927.C11
Gene No.	30893	Strand	+
Start	609	End	3072
Name	OJ990517_02.9927.C11.o1.tm	Method	TBLASTX:Maize
Start	2112	End	2547
GI	none	Score	229
Exons	2112..2357, 2162..2353, 2392..2547		

Seq. No.	14469	Seq. ID	OJ990517_02.9927.C11
Gene No.	30893	Strand	+
Start	609	End	3072
Name	OJ990517_02.9927.C11.o1.ts	Method	TBLASTX:Soybean
Start	2391	End	2607
GI	none	Score	233
Exons	2391..2537, 2392..2607		

Seq. No.	14469	Seq. ID	OJ990517_02.9927.C11
Gene No.	30893	Strand	+
Start	609	End	3072
Name	OJ990517_02.9927.C11.o3.tw	Method	TBLASTX:Wheat
Start	2733	End	3052
GI	none	Score	73
Exons	2733..2888, 2784..2951, 2785..3012, 3022..3051, 3023..3052		

Seq. No.	14469	Seq. ID	OJ990517_02.9927.C11
Gene No.	30893	Strand	+
Start	609	End	3072
Name	OJ990517_02.9927.C11.o2.tm	Method	TBLASTX:Maize
Start	2761	End	2976
GI	none	Score	166
Exons	2761..2907, 2790..2897, 2914..2976		

Seq. No.	14470	Seq. ID	OJ990517_02.9927.C12
Gene No.	30894	Strand	+
Start	105	End	1227
Name	OJ990517_02.9927.C12.o1.gs	Method	GENSCAN
Start	105	End	1089
GI	none	Score	.67
Exons	105..452, 553..1089		

Seq. No.	14470	Seq. ID	OJ990517_02.9927.C12

Gene No.	30894	Strand	+
Start	105	End	1227
Name	OJ990517_02.9927.C12.o1.gp	Method	AAT/GAP
Start	156	End	1227
GI	5002953	Score	1033
Exons	156..566, 1046..1227		
GI Descrip.	4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	14470	Seq. ID	OJ990517_02.9927.C12
Gene No.	30894	Strand	+
Start	105	End	1227
Name	OJ990517_02.9927.C12.o1.np	Method	AAT/NAP
Start	171	End	1113
GI	4680203	Score	524
Exons	171..1113		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	14470	Seq. ID	OJ990517_02.9927.C12
Gene No.	30895	Strand	-
Start	1409	End	1556
Name	OJ990517_02.9927.C12.o1.tw	Method	TBLASTX:Wheat
Start	3	End	1002
GI	none	Score	303
Exons	3..323, 11..271, 342..494, 359..406, 508..699, 543..683, 688..735, 739..780, 742..780, 804..881, 805..909, 910..1002		

Seq. No.	14470	Seq. ID	OJ990517_02.9927.C12
Gene No.	30895	Strand	-
Start	1409	End	1556
Name	OJ990517_02.9927.C12.o1.tc	Method	TBLASTX:Cress
Start	68	End	494
GI	none	Score	209
Exons	68..271, 72..323, 342..494, 359..406		

Seq. No.	14470	Seq. ID	OJ990517_02.9927.C12
Gene No.	30895	Strand	-
Start	1409	End	1556
Name	OJ990517_02.9927.C12.o2.gs	Method	GENSCAN
Start	1409	End	1556
GI	none	Score	.82
Exons	1409..1455, 1499..1556		

Seq. No.	14471	Seq. ID	OJ990517_02.9927.C13
Gene No.	30896	Strand	+
Start	1335	End	1867
Name	OJ990517_02.9927.C13.o1.gs	Method	GENSCAN
Start	1335	End	1867
GI	none	Score	.99
Exons	1335..1464, 1553..1676, 1702..1867		

Seq. No.	14472	Seq. ID	OJ990517_02.9927.C15
Gene No.	30897	Strand	-
Start	212	End	336
Name	OJ990517_02.9927.C15.o1.gs	Method	GENSCAN
Start	212	End	336
GI	none	Score	.97

Exons	212..336		
Seq. No.	14473	Seq. ID	OJ990517_02.9927.C16
Gene No.	30898	Strand	+
Start	71	End	697
Name	OJ990517_02.9927.C16.o1.gs	Method	GENSCAN
Start	71	End	697
GI	none	Score	.71
Exons	71..204, 274..333, 404..517, 602..697		
Seq. No.	14474	Seq. ID	OJ990517_02.9927.C18
Gene No.	30899	Strand	+
Start	1	End	384
Name	OJ990517_02.9927.C18.o1.np	Method	AAT/NAP
Start	1	End	381
GI	6907087	Score	132
Exons	1..35, 280..381		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	14474	Seq. ID	OJ990517_02.9927.C18
Gene No.	30899	Strand	+
Start	1	End	384
Name	OJ990517_02.9927.C18.o1.gs	Method	GENSCAN
Start	280	End	384
GI	none	Score	.71
Exons	280..384		
Seq. No.	14475	Seq. ID	OJ990517_02.9927.C19
Gene No.	30900	Strand	+
Start	392	End	525
Name	OJ990517_02.9927.C19.o1.gs	Method	GENSCAN
Start	392	End	525
GI	none	Score	.49
Exons	392..525		
Seq. No.	14476	Seq. ID	OJ990517_02.9927.C20
Gene No.	30901	Strand	+
Start	113	End	765
Name	OJ990517_02.9927.C20.o1.gs	Method	GENSCAN
Start	113	End	765
GI	none	Score	.5
Exons	113..167, 176..284, 741..765		
Seq. No.	14477	Seq. ID	OJ990517_02.9927.C21
Gene No.	30902	Strand	+
Start	442	End	1473
Name	OJ990517_02.9927.C21.o1.gs	Method	GENSCAN
Start	442	End	1473
GI	none	Score	.83
Exons	442..522, 1002..1106, 1393..1473		
Seq. No.	14478	Seq. ID	OJ990517_02.9927.C22
Gene No.	30903	Strand	-
Start	392	End	5402
Name	OJ990517_02.9927.C22.o1.gs	Method	GENSCAN

Start	392	End	3852
GI	none	Score	.62
Exons	392..523, 1303..1327, 1885..1965, 2859..3022, 3232..3333, 3753..3852		

Seq. No.	14478	Seq. ID	OJ990517_02.9927.C22
Gene No.	30903	Strand	-
Start	392	End	5402
Name	OJ990517_02.9927.C22.o2.np	Method	AAT/NAP
Start	2829	End	4409
GI	5042447	Score	1589
Exons	2829..3520, 3550..4409		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	14478	Seq. ID	OJ990517_02.9927.C22
Gene No.	30903	Strand	-
Start	392	End	5402
Name	OJ990517_02.9927.C22.o1.np	Method	AAT/NAP
Start	2832	End	4428
GI	4680179	Score	1632
Exons	2832..3520, 3550..4428		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14478	Seq. ID	OJ990517_02.9927.C22
Gene No.	30903	Strand	-
Start	392	End	5402
Name	OJ990517_02.9927.C22.o2.tw	Method	TBLASTX:Wheat
Start	2880	End	3198
GI	none	Score	56
Exons	2880..3188, 3094..3198		

Seq. No.	14478	Seq. ID	OJ990517_02.9927.C22
Gene No.	30903	Strand	-
Start	392	End	5402
Name	OJ990517_02.9927.C22.o3.np	Method	AAT/NAP
Start	3545	End	5402
GI	5042448	Score	531
Exons	3545..3587, 4756..5402		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	14478	Seq. ID	OJ990517_02.9927.C22
Gene No.	30903	Strand	-
Start	392	End	5402
Name	OJ990517_02.9927.C22.o1.tm	Method	TBLASTX:Maize
Start	3628	End	3927
GI	none	Score	88
Exons	3628..3927, 3743..3916		

Seq. No.	14478	Seq. ID	OJ990517_02.9927.C22
Gene No.	30903	Strand	-
Start	392	End	5402
Name	OJ990517_02.9927.C22.o1.tw	Method	TBLASTX:Wheat
Start	3634	End	3933
GI	none	Score	150
Exons	3634..3933, 3722..3928, 3727..3933		

Seq. No.	14479	Seq. ID	OJ990517_02.9927.C23
Gene No.	30904	Strand	-
Start	1055	End	3164
Name	OJ990517_02.9927.C23.o1.gs	Method	GENSCAN
Start	1055	End	2827
GI	none	Score	.66
Exons	1055..1115, 1834..2017, 2635..2827		

Seq. No.	14479	Seq. ID	OJ990517_02.9927.C23
Gene No.	30904	Strand	-
Start	1055	End	3164
Name	OJ990517_02.9927.C23.o3.tm	Method	TBLASTX:Maize
Start	1515	End	1952
GI	none	Score	69
Exons	1515..1613, 1517..1615, 1529..1717, 1593..1715, 1594..1716, 1650..1838, 1730..1837, 1828..1920, 1828..1920, 1836..1931, 1836..1952, 1838..1939		

Seq. No.	14479	Seq. ID	OJ990517_02.9927.C23
Gene No.	30904	Strand	-
Start	1055	End	3164
Name	OJ990517_02.9927.C23.o1.np	Method	AAT/NAP
Start	2181	End	3164
GI	6705984	Score	1292
Exons	2181..3164		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	14479	Seq. ID	OJ990517_02.9927.C23
Gene No.	30904	Strand	-
Start	1055	End	3164
Name	OJ990517_02.9927.C23.o2.tm	Method	TBLASTX:Maize
Start	2332	End	2602
GI	none	Score	186
Exons	2332..2601, 2333..2602		

Seq. No.	14479	Seq. ID	OJ990517_02.9927.C23
Gene No.	30904	Strand	-
Start	1055	End	3164
Name	OJ990517_02.9927.C23.o1.tw	Method	TBLASTX:Wheat
Start	2371	End	2769
GI	none	Score	329
Exons	2371..2769, 2381..2767		

Seq. No.	14479	Seq. ID	OJ990517_02.9927.C23
Gene No.	30904	Strand	-
Start	1055	End	3164
Name	OJ990517_02.9927.C23.o2.tw	Method	TBLASTX:Wheat
Start	2843	End	3163
GI	none	Score	229
Exons	2843..3163, 2844..3158		

Seq. No.	14479	Seq. ID	OJ990517_02.9927.C23
Gene No.	30904	Strand	-
Start	1055	End	3164
Name	OJ990517_02.9927.C23.o1.tm	Method	TBLASTX:Maize
Start	2908	End	3161
GI	none	Score	136

Exons 2908..3156, 2911..3156, 2912..3160, 2919..3161

Seq. No.	14479	Seq. ID	OJ990517_02.9927.C23
Gene No.	30904	Strand	-
Start	1055	End	3164
Name	OJ990517_02.9927.C23.o1.tc	Method	TBLASTX:Cress
Start	2975	End	3158
GI	none	Score	180
Exons	2975..3154, 2976..3158		

Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30905	Strand	+
Start	1100	End	1607
Name	OJ990517_02.9927.C24.o1.gs	Method	GENSCAN
Start	1100	End	1607
GI	none	Score	.88
Exons	1100..1202, 1489..1607		

Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30906	Strand	+
Start	4795	End	12829
Name	OJ990517_02.9927.C24.o1.np	Method	AAT/NAP
Start	4795	End	9455
GI	4836930	Score	297
Exons	4795..5166, 5523..5911, 9399..9455		
GI Descrip.	(AC006085) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30906	Strand	+
Start	4795	End	12829
Name	OJ990517_02.9927.C24.o2.np	Method	AAT/NAP
Start	7669	End	12719
GI	4325357	Score	384
Exons	7669..8308, 9233..9311, 12105..12719		
GI Descrip.	(AF128395) contains similarity to Arabidopsis thaliana retrotransposon Athila hypothetical protein 1 (GB:X81801) [Arabidopsis thaliana]		

Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30906	Strand	+
Start	4795	End	12829
Name	OJ990517_02.9927.C24.o4.gs	Method	GENSCAN
Start	8381	End	12829
GI	none	Score	.82
Exons	8381..8508, 9220..9352, 9815..9995, 10930..11028, 11420..11511, 11580..11784, 11892..12829		

Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30907	Strand	+
Start	13688	End	15903
Name	OJ990517_02.9927.C24.o5.gs	Method	GENSCAN
Start	13688	End	15903
GI	none	Score	.6
Exons	13688..13751, 14294..14381, 14680..14758, 14881..15019, 15521..15903		

Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24

Gene No.	30908	Strand	-
Start	6878	End	8188
Name	OJ990517_02.9927.C24.o1.gp	Method	AAT/GAP
Start	6673	End	7241
GI	4879016	Score	840
Exons	6673..7241		
GI Descrip.	6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30908	Strand	-
Start	6878	End	8188
Name	OJ990517_02.9927.C24.o3.gs	Method	GENSCAN
Start	6878	End	8188
GI	none	Score	.44
Exons	6878..6976, 7542..7672, 7713..7910, 7924..8188		

Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30909	Strand	-
Start	17129	End	19336
Name	OJ990517_02.9927.C24.o1.ts	Method	TBLASTX:Soybean
Start	5513	End	5863
GI	none	Score	125
Exons	5513..5737, 5744..5863		

Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30909	Strand	-
Start	17129	End	19336
Name	OJ990517_02.9927.C24.o1.tw	Method	TBLASTX:Wheat
Start	5675	End	5953
GI	none	Score	76
Exons	5675..5731, 5689..5721, 5724..5849, 5726..5869, 5734..5841, 5735..5869, 5864..5944, 5870..5953		

Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30909	Strand	-
Start	17129	End	19336
Name	OJ990517_02.9927.C24.o1.tm	Method	TBLASTX:Maize
Start	5729	End	5953
GI	none	Score	183
Exons	5729..5869, 5734..5841, 5864..5953, 5867..5953		

Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30909	Strand	-
Start	17129	End	19336
Name	OJ990517_02.9927.C24.o3.tw	Method	TBLASTX:Wheat
Start	7931	End	15586
GI	none	Score	69
Exons	7931..8005, 8021..8236, 15230..15586		

Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30909	Strand	-
Start	17129	End	19336
Name	OJ990517_02.9927.C24.o1.tc	Method	TBLASTX:Cress
Start	8036	End	8329
GI	none	Score	195

Exons	8036..8329		
Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30909	Strand	-
Start	17129	End	19336
Name	OJ990517_02.9927.C24.o2.tw	Method	TBLASTX:Wheat
Start	11999	End	12400
GI	none	Score	113
Exons	11999..12172, 12215..12400, 12286..12399		
Seq. No.	14480	Seq. ID	OJ990517_02.9927.C24
Gene No.	30909	Strand	-
Start	17129	End	19336
Name	OJ990517_02.9927.C24.o6.gs	Method	GENSCAN
Start	17129	End	19336
GI	none	Score	.55
Exons	17129..17227, 18796..18834, 19169..19336		
Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30910	Strand	+
Start	6303	End	9421
Name	OJ990517_02.9927.C25.o2.gs	Method	GENSCAN
Start	6303	End	9421
GI	none	Score	.66
Exons	6303..6353, 7158..7925, 8007..8193, 8222..8433, 8503..8562, 8633..8746, 8831..9421		
Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30911	Strand	-
Start	1	End	2508
Name	OJ990517_02.9927.C25.o2.np	Method	AAT/NAP
Start	1	End	2508
GI	2129618	Score	246
Exons	1..101, 1851..2508		
GI Descrip.	hypothetical protein 1 - Arabidopsis thaliana retrotransposon Athila gi|806535|emb|CAA57397| (X81801) Athila ORF 1 [Arabidopsis thaliana]		
Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30911	Strand	-
Start	1	End	2508
Name	OJ990517_02.9927.C25.o1.tc	Method	TBLASTX:Cress
Start	1967	End	2275
GI	none	Score	185
Exons	1967..2275		
Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30911	Strand	-
Start	1	End	2508
Name	OJ990517_02.9927.C25.o1.tw	Method	TBLASTX:Wheat
Start	2069	End	2422
GI	none	Score	61
Exons	2069..2290, 2306..2422		
Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30912	Strand	
Start	9879	End	10306

Name	OJ990517_02.9927.C25.o4.ts	Method	TBLASTX:Soybean
Start	9879	End	10123
GI	none	Score	97
Exons	9879..10001, 9986..10123, 10002..10121		

Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30912	Strand	
Start	9879	End	10306
Name	OJ990517_02.9927.C25.o2.tw	Method	TBLASTX:Wheat
Start	9906	End	10306
GI	none	Score	166
Exons	9906..10007, 9989..10306		

Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30913	Strand	
Start	10634	End	11029
Name	OJ990517_02.9927.C25.o3.tw	Method	TBLASTX:Wheat
Start	10634	End	11023
GI	none	Score	170
Exons	10634..10690, 10721..11023		

Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30913	Strand	
Start	10634	End	11029
Name	OJ990517_02.9927.C25.o2.ts	Method	TBLASTX:Soybean
Start	10667	End	10948
GI	none	Score	92
Exons	10667..10948, 10668..10880		

Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30913	Strand	
Start	10634	End	11029
Name	OJ990517_02.9927.C25.o2.tm	Method	TBLASTX:Maize
Start	10697	End	11029
GI	none	Score	215
Exons	10697..11029		

Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30914	Strand	
Start	11285	End	11728
Name	OJ990517_02.9927.C25.o4.tw	Method	TBLASTX:Wheat
Start	11285	End	11683
GI	none	Score	77
Exons	11285..11554, 11564..11683		

Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30914	Strand	
Start	11285	End	11728
Name	OJ990517_02.9927.C25.o1.ts	Method	TBLASTX:Soybean
Start	11318	End	11728
GI	none	Score	82
Exons	11318..11557, 11403..11570, 11591..11728, 11592..11726		

Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30915	Strand	
Start	11879	End	12323
Name	OJ990517_02.9927.C25.o3.ts	Method	TBLASTX:Soybean

Start	11879	End	12313
GI	none	Score	76
Exons	11879..12067, 11886..12023, 12068..12145, 12215..12313, 12243..12311		

Seq. No.	14481	Seq. ID	OJ990517_02.9927.C25
Gene No.	30915	Strand	
Start	11879	End	12323
Name	OJ990517_02.9927.C25.o1.tm	Method	TBLASTX:Maize
Start	12038	End	12323
GI	none	Score	86
Exons	12038..12157, 12039..12179, 12215..12322, 12243..12323		

Seq. No.	14482	Seq. ID	OJ990517_02.9927.C26
Gene No.	30916	Strand	-
Start	1	End	690
Name	OJ990517_02.9927.C26.o1.np	Method	AAT/NAP
Start	1	End	690
GI	4544372	Score	267
Exons	1..690		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14482	Seq. ID	OJ990517_02.9927.C26
Gene No.	30916	Strand	-
Start	1	End	690
Name	OJ990517_02.9927.C26.o1.tm	Method	TBLASTX:Maize
Start	3	End	260
GI	none	Score	119
Exons	3..260, 34..201, 66..236		

Seq. No.	14482	Seq. ID	OJ990517_02.9927.C26
Gene No.	30916	Strand	-
Start	1	End	690
Name	OJ990517_02.9927.C26.o1.tw	Method	TBLASTX:Wheat
Start	3	End	392
GI	none	Score	78
Exons	3..392, 40..204		

Seq. No.	14482	Seq. ID	OJ990517_02.9927.C26
Gene No.	30916	Strand	-
Start	1	End	690
Name	OJ990517_02.9927.C26.o1.ts	Method	TBLASTX:Soybean
Start	39	End	353
GI	none	Score	137
Exons	39..122, 129..353		

Seq. No.	14482	Seq. ID	OJ990517_02.9927.C26
Gene No.	30916	Strand	-
Start	1	End	690
Name	OJ990517_02.9927.C26.o1.gs	Method	GENSCAN
Start	45	End	593
GI	none	Score	.52
Exons	45..151, 458..593		

Seq. No.	14483	Seq. ID	OJ990517_02.9927.C29
Gene No.	30917	Strand	+

Start	1	End	459
Name	OJ990517_02.9927.C29.o1.np	Method	AAT/NAP
Start	1	End	459
GI	6907087	Score	388
Exons	1..459		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14483	Seq. ID	OJ990517_02.9927.C29
Gene No.	30917	Strand	+
Start	1	End	459
Name	OJ990517_02.9927.C29.o1.gs	Method	GENSCAN
Start	67	End	439
GI	none	Score	.9
Exons	67..439		

Seq. No.	14484	Seq. ID	OJ990517_02.9927.C32
Gene No.	30918	Strand	+
Start	1	End	731
Name	OJ990517_02.9927.C32.o1.np	Method	AAT/NAP
Start	1	End	731
GI	4206306	Score	375
Exons	1..731		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	14484	Seq. ID	OJ990517_02.9927.C32
Gene No.	30918	Strand	+
Start	1	End	731
Name	OJ990517_02.9927.C32.o1.tw	Method	TBLASTX:Wheat
Start	41	End	341
GI	none	Score	54
Exons	41..67, 42..68, 66..137, 67..234, 73..243, 93..242, 231..341, 240..296, 241..327		

Seq. No.	14484	Seq. ID	OJ990517_02.9927.C32
Gene No.	30918	Strand	+
Start	1	End	731
Name	OJ990517_02.9927.C32.o2.tm	Method	TBLASTX:Maize
Start	41	End	210
GI	none	Score	54
Exons	41..67, 42..68, 66..137, 67..210, 73..192		

Seq. No.	14484	Seq. ID	OJ990517_02.9927.C32
Gene No.	30918	Strand	+
Start	1	End	731
Name	OJ990517_02.9927.C32.o1.gs	Method	GENSCAN
Start	52	End	668
GI	none	Score	.69
Exons	52..215, 245..668		

Seq. No.	14484	Seq. ID	OJ990517_02.9927.C32
Gene No.	30918	Strand	+
Start	1	End	731
Name	OJ990517_02.9927.C32.o1.tm	Method	TBLASTX:Maize
Start	211	End	668
GI	none	Score	47

Exons	211..243, 231..491, 236..298, 359..463, 527..667, 549..668		
Seq. No.	14484	Seq. ID	OJ990517_02.9927.C32
Gene No.	30918	Strand	+
Start	1	End	731
Name	OJ990517_02.9927.C32.o1.ts	Method	TBLASTX:Soybean
Start	285	End	491
GI	none	Score	200
Exons	285..491, 395..463		
Seq. No.	14485	Seq. ID	OJ990517_02.9927.C34
Gene No.	30919	Strand	+
Start	61	End	109
Name	OJ990517_02.9927.C34.o1.gs	Method	GENSCAN
Start	61	End	109
GI	none	Score	.55
Exons	61..109		
Seq. No.	14486	Seq. ID	OJ990517_02.9927.C35
Gene No.	30920	Strand	+
Start	100	End	459
Name	OJ990517_02.9927.C35.o1.gs	Method	GENSCAN
Start	100	End	459
GI	none	Score	.89
Exons	100..459		
Seq. No.	14487	Seq. ID	OJ990517_02.9927.C36
Gene No.	30921	Strand	-
Start	28	End	505
Name	OJ990517_02.9927.C36.o1.gs	Method	GENSCAN
Start	28	End	505
GI	none	Score	.65
Exons	28..113, 424..448, 494..505		
Seq. No.	14488	Seq. ID	OJ990517_02.9927.C38
Gene No.	30922	Strand	-
Start	494	End	4120
Name	OJ990517_02.9927.C38.o1.np	Method	AAT/NAP
Start	494	End	4120
GI	4582459	Score	560
Exons	494..665, 753..882, 1738..1896, 2096..2250, 2323..2471, 4099..4120		
GI Descrip.	(AC007071) putative importin (nuclear transport factor) protein [Arabidopsis thaliana]		
Seq. No.	14488	Seq. ID	OJ990517_02.9927.C38
Gene No.	30922	Strand	-
Start	494	End	4120
Name	OJ990517_02.9927.C38.o1.tm	Method	TBLASTX:Maize
Start	511	End	2448
GI	none	Score	121
Exons	511..675, 515..673, 740..811, 742..816, 866..883, 1748..1804, 1828..1896, 1828..1920, 2096..2230, 2096..2233, 2097..2231, 2097..2237, 2098..2238, 2328..2423, 2331..2447, 2332..2448		
Seq. No.	14488	Seq. ID	OJ990517_02.9927.C38
Gene No.	30922	Strand	-

Start	494	End	4120
Name	OJ990517_02.9927.C38.o1.gs	Method	GENSCAN
Start	514	End	3943
GI	none	Score	.91
Exons	514..665, 753..882, 1742..1893, 2096..2235, 2332..2471, 3368..3462, 3886..3943		

Seq. No.	14488	Seq. ID	OJ990517_02.9927.C38
Gene No.	30922	Strand	-
Start	494	End	4120
Name	OJ990517_02.9927.C38.o2.tc	Method	TBLASTX:Cress
Start	520	End	816
GI	none	Score	68
Exons	520..663, 575..664, 740..811, 754..816		

Seq. No.	14488	Seq. ID	OJ990517_02.9927.C38
Gene No.	30922	Strand	-
Start	494	End	4120
Name	OJ990517_02.9927.C38.o2.ts	Method	TBLASTX:Soybean
Start	520	End	816
GI	none	Score	77
Exons	520..663, 754..816, 758..811		

Seq. No.	14488	Seq. ID	OJ990517_02.9927.C38
Gene No.	30922	Strand	-
Start	494	End	4120
Name	OJ990517_02.9927.C38.o1.ts	Method	TBLASTX:Soybean
Start	2097	End	2472
GI	none	Score	71
Exons	2097..2234, 2097..2237, 2098..2238, 2331..2465, 2331..2471, 2332..2472		

Seq. No.	14488	Seq. ID	OJ990517_02.9927.C38
Gene No.	30922	Strand	-
Start	494	End	4120
Name	OJ990517_02.9927.C38.o1.tc	Method	TBLASTX:Cress
Start	2154	End	2471
GI	none	Score	92
Exons	2154..2237, 2155..2238, 2331..2471, 2332..2436		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30923	Strand	+
Start	11917	End	12204
Name	OJ990517_02.9927.C39.o2.gs	Method	GENSCAN
Start	11917	End	12204
GI	none	Score	.8
Exons	11917..12204		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30924	Strand	+
Start	14715	End	17448
Name	OJ990517_02.9927.C39.o3.gs	Method	GENSCAN
Start	14715	End	17448
GI	none	Score	.48
Exons	14715..14722, 16004..16113, 16642..16928, 17035..17448		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39

Gene No.	30925	Strand	+
Start	21654	End	24454
Name	OJ990517_02.9927.C39.o2.np	Method	AAT/NAP
Start	21654	End	24454
GI	6850312	Score	636
Exons	21654..21741, 22319..22469, 22567..22696, 22782..23029, 23649..23873, 24380..24454		
GI Descrip.	(AC009999) Contains similarity to nucellin from Hordeum vulgare gb|U87148. ESTs gb|T22068, gb|F14251, gb|F14237, gb|F14242 come from this gene. [Arabidopsis thaliana]		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30925	Strand	+
Start	21654	End	24454
Name	OJ990517_02.9927.C39.o1.gp	Method	AAT/GAP
Start	21905	End	22439
GI	uC-osrocyp015e06b1	Score	991
Exons	21905..22439		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30925	Strand	+
Start	21654	End	24454
Name	OJ990517_02.9927.C39.o5.gs	Method	GENSCAN
Start	22210	End	23873
GI	none	Score	.59
Exons	22210..22696, 22735..23029, 23649..23873		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30926	Strand	-
Start	1	End	10478
Name	OJ990517_02.9927.C39.o1.np	Method	AAT/NAP
Start	1	End	10478
GI	4582459	Score	2536
Exons	1..25, 1248..1437, 1561..1641, 2788..2924, 3441..3639, 3720..3838, 4042..4201, 5305..5485, 5566..5689, 5820..5965, 6318..6491, 6557..6741, 6811..6973, 7361..7513, 8287..8432, 8461..8579, 10389..10478		
GI Descrip.	(AC007071) putative importin (nuclear transport factor) protein [Arabidopsis thaliana]		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30926	Strand	-
Start	1	End	10478
Name	OJ990517_02.9927.C39.o1.gs	Method	GENSCAN
Start	1258	End	10478
GI	none	Score	.89
Exons	1258..1437, 1538..1641, 2793..2924, 3441..3639, 3720..3838, 4042..4201, 5305..5485, 5566..5689, 5820..5965, 6318..6491, 6608..6741, 6811..6973, 7361..7513, 8287..8374, 8444..8579, 10389..10478		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30927	Strand	-
Start	19023	End	21316

Name	OJ990517_02.9927.C39.o3.tm	Method	TBLASTX:Maize
Start	1252	End	3580
GI	none	Score	207
Exons	1252..1434, 1253..1432, 1255..1437, 1277..1438, 1533..1640, 1535..1642, 1547..1654, 1668..1700, 2789..2926, 2790..2927, 2791..2925, 2792..2926, 3436..3579, 3438..3578, 3446..3580		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30927	Strand	-
Start	19023	End	21316
Name	OJ990517_02.9927.C39.o1.ts	Method	TBLASTX:Soybean
Start	1255	End	3489
GI	none	Score	154
Exons	1255..1437, 1258..1437, 1277..1438, 1527..1640, 1535..1654, 1535..1642, 1537..1656, 2789..2926, 2790..2915, 2797..2925, 3436..3489		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30927	Strand	-
Start	19023	End	21316
Name	OJ990517_02.9927.C39.o2.tc	Method	TBLASTX:Cress
Start	1255	End	2904
GI	none	Score	87
Exons	1255..1437, 1289..1423, 1530..1640, 1541..1642, 2786..2902, 2797..2904		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30927	Strand	-
Start	19023	End	21316
Name	OJ990517_02.9927.C39.o3.ts	Method	TBLASTX:Soybean
Start	3556	End	3953
GI	none	Score	62
Exons	3556..3639, 3559..3630, 3718..3837, 3720..3845, 3720..3848, 3721..3849, 3897..3953		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30927	Strand	-
Start	19023	End	21316
Name	OJ990517_02.9927.C39.o2.tm	Method	TBLASTX:Maize
Start	3580	End	5460
GI	none	Score	59
Exons	3580..3639, 3583..3630, 3588..3668, 3599..3640, 3719..3844, 3719..3844, 3720..3845, 3720..3848, 3721..3849, 3897..3971, 4010..4204, 4043..4201, 4044..4244, 5303..5458, 5305..5460, 5306..5458		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30927	Strand	-
Start	19023	End	21316
Name	OJ990517_02.9927.C39.o2.ts	Method	TBLASTX:Soybean
Start	5380	End	5976
GI	none	Score	117
Exons	5380..5505, 5381..5506, 5383..5511, 5548..5691, 5561..5686, 5562..5705, 5562..5690, 5810..5968, 5814..5948, 5821..5976		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30927	Strand	-

Start	19023	End	21316
Name	OJ990517_02.9927.C39.o4.tm	Method	TBLASTX:Maize
Start	5662	End	6473
GI	none	Score	47
Exons	5662..5691, 5664..5690, 5810..5968, 5821..5967, 6306..6467, 6320..6466, 6351..6473		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30927	Strand	-
Start	19023	End	21316
Name	OJ990517_02.9927.C39.o1.tc	Method	TBLASTX:Cress
Start	5830	End	6688
GI	none	Score	129
Exons	5830..5967, 5830..5976, 6318..6491, 6320..6493, 6329..6493, 6538..6687, 6539..6688		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30927	Strand	-
Start	19023	End	21316
Name	OJ990517_02.9927.C39.o5.tm	Method	TBLASTX:Maize
Start	6688	End	7483
GI	none	Score	135
Exons	6688..6747, 6808..6972, 6815..6970, 6823..6972, 7360..7473, 7360..7476, 7361..7483		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30927	Strand	-
Start	19023	End	21316
Name	OJ990517_02.9927.C39.o6.ts	Method	TBLASTX:Soybean
Start	6754	End	7410
GI	none	Score	133
Exons	6754..6972, 6809..6973, 6815..6976, 7360..7410		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30927	Strand	-
Start	19023	End	21316
Name	OJ990517_02.9927.C39.o5.tc	Method	TBLASTX:Cress
Start	7420	End	8582
GI	none	Score	72
Exons	7420..7521, 7424..7504, 8286..8384, 8454..8582, 8455..8571		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30927	Strand	-
Start	19023	End	21316
Name	OJ990517_02.9927.C39.o4.gs	Method	GENSCAN
Start	19023	End	21316
GI	none	Score	.84
Exons	19023..19133, 20710..20821, 21117..21316		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30928	Strand	
Start	22384	End	23888
Name	OJ990517_02.9927.C39.o1.tm	Method	TBLASTX:Maize
Start	22384	End	23869
GI	none	Score	104
Exons	22384..22470, 22529..22696, 22568..22699, 22781..23029, 22782..23030, 22782..23030, 22891..23031, 23637..23861,		

23638..23862, 23642..23863, 23724..23864, 23783..23869

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30928	Strand	
Start	22384	End	23888
Name	OJ990517_02.9927.C39.o4.ts	Method	TBLASTX:Soybean
Start	22384	End	22865
GI	none	Score	76
Exons	22384..22470, 22568..22699, 22570..22695, 22782..22865		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30928	Strand	
Start	22384	End	23888
Name	OJ990517_02.9927.C39.o4.tc	Method	TBLASTX:Cress
Start	22664	End	23030
GI	none	Score	47
Exons	22664..22699, 22782..23030, 22808..23029		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30928	Strand	
Start	22384	End	23888
Name	OJ990517_02.9927.C39.o3.tc	Method	TBLASTX:Cress
Start	23638	End	23865
GI	none	Score	272
Exons	23638..23865, 23649..23858		

Seq. No.	14489	Seq. ID	OJ990517_02.9927.C39
Gene No.	30928	Strand	
Start	22384	End	23888
Name	OJ990517_02.9927.C39.o5.ts	Method	TBLASTX:Soybean
Start	23649	End	23888
GI	none	Score	54
Exons	23649..23708, 23650..23691, 23659..23871, 23689..23859, 23691..23867, 23700..23888		

Seq. No.	14490	Seq. ID	OJ990517_02.9927.C40
Gene No.	30929	Strand	+
Start	1	End	3168
Name	OJ990517_02.9927.C40.o1.np	Method	AAT/NAP
Start	1	End	3168
GI	6850312	Score	196
Exons	1..23, 2353..2553, 2658..2716, 3069..3168		
GI Descrip.	(AC009999) Contains similarity to nucellin from Hordeum vulgare gb|U87148. ESTs gb|T22068, gb|F14251, gb|F14237, gb|F14242 come from this gene. [Arabidopsis thaliana]		

Seq. No.	14490	Seq. ID	OJ990517_02.9927.C40
Gene No.	30930	Strand	-
Start	1139	End	1360
Name	OJ990517_02.9927.C40.o1.gs	Method	GENSCAN
Start	1139	End	1360
GI	none	Score	.46
Exons	1139..1360		

Seq. No.	14490	Seq. ID	OJ990517_02.9927.C40
Gene No.	30931	Strand	
Start	2382	End	3160

Name	OJ990517_02.9927.C40.o1.tm	Method	TBLASTX:Maize
Start	2382	End	3160
GI	none	Score	243
Exons	2382..2558, 2392..2547, 2395..2565, 2645..2716, 2646..2714, 3066..3158, 3070..3159, 3074..3160		

Seq. No.	14491	Seq. ID	OJ990517_02.9927.C41
Gene No.	30932	Strand	+
Start	1	End	3476
Name	OJ990517_02.9927.C41.o1.np	Method	AAT/NAP
Start	1	End	3476
GI	6728988	Score	166
Exons	1..46, 2734..2812, 2922..2993, 3328..3476		
GI Descrip.	(AC018363) putative aspartyl protease [Arabidopsis thaliana]		

Seq. No.	14491	Seq. ID	OJ990517_02.9927.C41
Gene No.	30932	Strand	+
Start	1	End	3476
Name	OJ990517_02.9927.C41.o1.gs	Method	GENSCAN
Start	1123	End	3443
GI	none	Score	.59
Exons	1123..1206, 2734..2812, 2922..2993, 3328..3443		

Seq. No.	14491	Seq. ID	OJ990517_02.9927.C41
Gene No.	30933	Strand	-
Start	3339	End	3804
Name	OJ990517_02.9927.C41.o1.tm	Method	TBLASTX:Maize
Start	2719	End	3606
GI	none	Score	110
Exons	2719..2826, 2738..2827, 2745..2825, 2909..2995, 2919..3005, 2933..2995, 3327..3467, 3330..3467, 3503..3538, 3520..3606, 3552..3605		

Seq. No.	14491	Seq. ID	OJ990517_02.9927.C41
Gene No.	30933	Strand	-
Start	3339	End	3804
Name	OJ990517_02.9927.C41.o1.gp	Method	AAT/GAP
Start	3339	End	3804
GI	none	Score	897
Exons	3339..3804		

Seq. No.	14492	Seq. ID	OJ990517_02.9927.C42
Gene No.	30934	Strand	-
Start	730	End	2186
Name	OJ990517_02.9927.C42.o1.gs	Method	GENSCAN
Start	730	End	2186
GI	none	Score	.43
Exons	730..878, 2108..2186		

Seq. No.	14493	Seq. ID	OJ990517_02.9927.C43
Gene No.	30935	Strand	-
Start	1227	End	2302
Name	OJ990517_02.9927.C43.o1.gs	Method	GENSCAN
Start	1227	End	2302
GI	none	Score	.4
Exons	1227..1354, 2257..2302		

Seq. No.	14494	Seq. ID	OJ990517_02.9927.C44
Gene No.	30936	Strand	-
Start	5030	End	5134
Name	OJ990517_02.9927.C44.o1.gp	Method	AAT/GAP
Start	5030	End	5134
GI	LIB3477-003-P1-K1-E9	Score	145
Exons	5030..5134		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	14495	Seq. ID	OJ990517_02.9927.C46
Gene No.	30937	Strand	-
Start	630	End	1122
Name	OJ990517_02.9927.C46.o1.gs	Method	GENSCAN
Start	630	End	1122
GI	none	Score	.67
Exons	630..776, 871..1122		

Seq. No.	14496	Seq. ID	OJ990517_02.9927.C47
Gene No.	30938	Strand	-
Start	292	End	2287
Name	OJ990517_02.9927.C47.o1.np	Method	AAT/NAP
Start	184	End	2287
GI	5922620	Score	450
Exons	184..313, 1700..1784, 1821..1997, 2116..2287		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14496	Seq. ID	OJ990517_02.9927.C47
Gene No.	30938	Strand	-
Start	292	End	2287
Name	OJ990517_02.9927.C47.o1.gs	Method	GENSCAN
Start	292	End	1997
GI	none	Score	.63
Exons	292..472, 979..1093, 1700..1784, 1854..1997		

Seq. No.	14497	Seq. ID	OJ990517_02.9927.C48
Gene No.	30939	Strand	+
Start	4159	End	5233
Name	OJ990517_02.9927.C48.o1.np	Method	AAT/NAP
Start	4159	End	5233
GI	5042448	Score	766
Exons	4159..4926, 5144..5233		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	14497	Seq. ID	OJ990517_02.9927.C48
Gene No.	30940	Strand	+
Start	6985	End	7117
Name	OJ990517_02.9927.C48.o2.np	Method	AAT/NAP
Start	6985	End	7117
GI	5922620	Score	102
Exons	6985..7117		

GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	14497	Seq. ID	OJ990517_02.9927.C48
Gene No.	30941	Strand	+
Start	8788	End	13815
Name	OJ990517_02.9927.C48.o4.np	Method	AAT/NAP
Start	8707	End	13815
GI	6728988	Score	549
Exons	8707..8957, 9050..9179, 9339..9568, 12251..12476, 13307..13468, 13551..13621, 13750..13815		
GI Descrip.	(AC018363) putative aspartyl protease [Arabidopsis thaliana]		
Seq. No.	14497	Seq. ID	OJ990517_02.9927.C48
Gene No.	30941	Strand	+
Start	8788	End	13815
Name	OJ990517_02.9927.C48.o4.gs	Method	GENSCAN
Start	8788	End	13550
GI	none	Score	.71
Exons	8788..8957, 9050..9179, 9336..9568, 9980..10077, 10221..10271, 10348..10421, 10577..10690, 11946..11983, 12251..12475, 13303..13550		
Seq. No.	14497	Seq. ID	OJ990517_02.9927.C48
Gene No.	30942	Strand	-
Start	261	End	2679
Name	OJ990517_02.9927.C48.o1.gs	Method	GENSCAN
Start	261	End	2679
GI	none	Score	.69
Exons	261..449, 473..556, 1284..1376, 1670..1822, 1913..1948, 2677..2679		
Seq. No.	14497	Seq. ID	OJ990517_02.9927.C48
Gene No.	30943	Strand	-
Start	6897	End	8579
Name	OJ990517_02.9927.C48.o3.gs	Method	GENSCAN
Start	6897	End	8579
GI	none	Score	.7
Exons	6897..7087, 8381..8579		
Seq. No.	14497	Seq. ID	OJ990517_02.9927.C48
Gene No.	30943	Strand	-
Start	6897	End	8579
Name	OJ990517_02.9927.C48.o3.np	Method	AAT/NAP
Start	7255	End	7341
GI	6630699	Score	94
Exons	7255..7341		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	14497	Seq. ID	OJ990517_02.9927.C48
Gene No.	30944	Strand	
Start	8848	End	9176

Name	OJ990517_02.9927.C48.o2.tm	Method	TBLASTX:Maize
Start	8848	End	9176
GI	none	Score	49
Exons	8848..8898, 8889..8957, 8898..8957, 8899..8958, 9040..9171, 9051..9176, 9054..9170		

Seq. No.	14497	Seq. ID	OJ990517_02.9927.C48
Gene No.	30945	Strand	
Start	9363	End	13619
Name	OJ990517_02.9927.C48.o1.tm	Method	TBLASTX:Maize
Start	9363	End	13619
GI	none	Score	133
Exons	9363..9569, 9416..9571, 9440..9571, 9448..9657, 9459..9587, 12250..12420, 12251..12466, 12252..12467, 12282..12473, 13310..13483, 13318..13473, 13551..13619		

Seq. No.	14497	Seq. ID	OJ990517_02.9927.C48
Gene No.	30945	Strand	
Start	9363	End	13619
Name	OJ990517_02.9927.C48.o1.ts	Method	TBLASTX:Soybean
Start	12242	End	13432
GI	none	Score	46
Exons	12242..12304, 12251..12310, 12287..12460, 12294..12476, 13310..13432		

Seq. No.	14497	Seq. ID	OJ990517_02.9927.C48
Gene No.	30945	Strand	
Start	9363	End	13619
Name	OJ990517_02.9927.C48.o1.tc	Method	TBLASTX:Cress
Start	12251	End	13472
GI	none	Score	258
Exons	12251..12466, 12252..12467, 13310..13462, 13323..13472		

Seq. No.	14498	Seq. ID	OJ990517_02.9927.C49
Gene No.	30946	Strand	+
Start	1	End	637
Name	OJ990517_02.9927.C49.o1.np	Method	AAT/NAP
Start	1	End	637
GI	6850312	Score	76
Exons	1..22, 534..637		
GI Descrip.	(AC009999) Contains similarity to nucellin from Hordeum vulgare gb|U87148. ESTs gb|T22068, gb|F14251, gb|F14237, gb|F14242 come from this gene. [Arabidopsis thaliana]		

Seq. No.	14498	Seq. ID	OJ990517_02.9927.C49
Gene No.	30947	Strand	+
Start	4340	End	4887
Name	OJ990517_02.9927.C49.o2.np	Method	AAT/NAP
Start	4340	End	4887
GI	6728988	Score	52
Exons	4340..4400, 4483..4568, 4841..4887		
GI Descrip.	(AC018363) putative aspartyl protease [Arabidopsis thaliana]		

Seq. No.	14499	Seq. ID	OJ990517_02.9927.C52
Gene No.	30948	Strand	-
Start	1	End	508
Name	OJ990517_02.9927.C52.o1.np	Method	AAT/NAP

Start	1	End	508
GI	4582459	Score	443
Exons	1..216, 286..508		
GI Descrip.	(AC007071) putative importin (nuclear transport factor) protein [Arabidopsis thaliana]		

Seq. No.	14499	Seq. ID	OJ990517_02.9927.C52
Gene No.	30948	Strand	-
Start	1	End	508
Name	OJ990517_02.9927.C52.o1.tc	Method	TBLASTX:Cress
Start	13	End	163
GI	none	Score	170
Exons	13..162, 14..163		

Seq. No.	14499	Seq. ID	OJ990517_02.9927.C52
Gene No.	30948	Strand	-
Start	1	End	508
Name	OJ990517_02.9927.C52.o1.gs	Method	GENSCAN
Start	83	End	448
GI	none	Score	.68
Exons	83..216, 286..448		

Seq. No.	14499	Seq. ID	OJ990517_02.9927.C52
Gene No.	30948	Strand	-
Start	1	End	508
Name	OJ990517_02.9927.C52.o1.tm	Method	TBLASTX:Maize
Start	163	End	447
GI	none	Score	135
Exons	163..222, 283..447, 290..445, 298..447		

Seq. No.	14499	Seq. ID	OJ990517_02.9927.C52
Gene No.	30948	Strand	-
Start	1	End	508
Name	OJ990517_02.9927.C52.o1.ts	Method	TBLASTX:Soybean
Start	229	End	452
GI	none	Score	133
Exons	229..447, 284..448, 285..452		

Seq. No.	14500	Seq. ID	OJ990517_02.9927.C54
Gene No.	30949	Strand	+
Start	156	End	294
Name	OJ990517_02.9927.C54.o1.gs	Method	GENSCAN
Start	156	End	294
GI	none	Score	.49
Exons	156..294		

Seq. No.	14501	Seq. ID	OJ990517_02.9927.C55
Gene No.	30950	Strand	-
Start	351	End	467
Name	OJ990517_02.9927.C55.o1.gs	Method	GENSCAN
Start	351	End	467
GI	none	Score	1
Exons	351..467		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30951	Strand	+
Start	2146	End	7188

Name	OJ990517_02.9927.C56.o3.np	Method	AAT/NAP
Start	2146	End	7188
GI	4680186	Score	372
Exons	2146..2200, 6103..6151, 6988..7188		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o1.gs	Method	GENSCAN
Start	288	End	7023
GI	none	Score	.54
Exons	288..407, 426..1082, 1215..1577, 1623..2972, 3060..4805, 5047..5131, 5161..5855, 6952..7023		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o1.np	Method	AAT/NAP
Start	291	End	4802
GI	4680179	Score	5379
Exons	291..3695, 3729..4802		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o6.tw	Method	TBLASTX:Wheat
Start	336	End	669
GI	none	Score	133
Exons	336..668, 357..665, 400..669		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o1.tm	Method	TBLASTX:Maize
Start	516	End	1115
GI	none	Score	111
Exons	516..956, 531..794, 532..957, 954..1115, 960..1109, 961..1113		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o1.tw	Method	TBLASTX:Wheat
Start	669	End	1298
GI	none	Score	227
Exons	669..1124, 670..1122, 904..1128, 953..1129, 1149..1298		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o4.tm	Method	TBLASTX:Maize
Start	1167	End	1459
GI	none	Score	208
Exons	1167..1457, 1171..1458, 1298..1459		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56

Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o2.ts	Method	TBLASTX:Soybean
Start	1257	End	1517
GI	none	Score	153
Exons	1257..1517, 1258..1512		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o2.tw	Method	TBLASTX:Wheat
Start	1305	End	1872
GI	none	Score	343
Exons	1305..1841, 1306..1872		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o2.tm	Method	TBLASTX:Maize
Start	1872	End	2226
GI	none	Score	216
Exons	1872..2225, 1876..2226		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o3.tw	Method	TBLASTX:Wheat
Start	1875	End	2297
GI	none	Score	364
Exons	1875..2297, 1876..2265		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o3.ts	Method	TBLASTX:Soybean
Start	2046	End	2291
GI	none	Score	95
Exons	2046..2291, 2047..2274		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o3.tm	Method	TBLASTX:Maize
Start	2262	End	2762
GI	none	Score	50
Exons	2262..2576, 2305..2355, 2383..2436, 2583..2762, 2608..2754		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o5.tw	Method	TBLASTX:Wheat
Start	2298	End	2600
GI	none	Score	264
Exons	2298..2600, 2314..2598		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-

Start	288	End	7121
Name	OJ990517_02.9927.C56.o1.ts	Method	TBLASTX:Soybean
Start	2313	End	2708
GI	none	Score	182
Exons	2313..2672, 2314..2604, 2632..2670, 2676..2708, 2677..2706		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o4.tw	Method	TBLASTX:Wheat
Start	2649	End	3131
GI	none	Score	225
Exons	2649..3026, 2692..3027, 3081..3131		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o2.tc	Method	TBLASTX:Cress
Start	2685	End	3002
GI	none	Score	180
Exons	2685..3002		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o5.tm	Method	TBLASTX:Maize
Start	2775	End	3161
GI	none	Score	99
Exons	2775..3161, 2833..3159		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o8.tw	Method	TBLASTX:Wheat
Start	3246	End	3668
GI	none	Score	69
Exons	3246..3413, 3301..3414, 3459..3668, 3520..3612		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o7.tm	Method	TBLASTX:Maize
Start	3351	End	3704
GI	none	Score	185
Exons	3351..3704		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o7.tw	Method	TBLASTX:Wheat
Start	3981	End	4332
GI	none	Score	112
Exons	3981..4331, 4138..4332		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121

Name	OJ990517_02.9927.C56.o6.tm	Method	TBLASTX:Maize
Start	4026	End	4331
GI	none	Score	90
Exons	4026..4331, 4201..4317		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o9.tw	Method	TBLASTX:Wheat
Start	4366	End	4565
GI	none	Score	117
Exons	4366..4563, 4368..4565		

Seq. No.	14502	Seq. ID	OJ990517_02.9927.C56
Gene No.	30952	Strand	-
Start	288	End	7121
Name	OJ990517_02.9927.C56.o1.gp	Method	AAT/GAP
Start	6739	End	7121
GI	uC-osf1cyp033a04b1	Score	712
Exons	6739..7121		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14503	Seq. ID	OJ990517_02.9927.C57
Gene No.	30953	Strand	+
Start	205	End	1762
Name	OJ990517_02.9927.C57.o1.gs	Method	GENSCAN
Start	205	End	1762
GI	none	Score	.51
Exons	205..793, 872..995, 1048..1334, 1416..1762		

Seq. No.	14504	Seq. ID	OJ990517_02.9927.C61
Gene No.	30954	Strand	+
Start	51	End	563
Name	OJ990517_02.9927.C61.o1.gs	Method	GENSCAN
Start	51	End	563
GI	none	Score	.81
Exons	51..563		

Seq. No.	14505	Seq. ID	OJ990427_04.9922.C1
Gene No.	30955	Strand	-
Start	171	End	678
Name	OJ990427_04.9922.C1.o1.tw	Method	TBLASTX:Wheat
Start	164	End	393
GI	none	Score	60
Exons	164..229, 174..224, 226..393, 228..392		

Seq. No.	14505	Seq. ID	OJ990427_04.9922.C1
Gene No.	30955	Strand	-
Start	171	End	678
Name	OJ990427_04.9922.C1.o1.np	Method	AAT/NAP
Start	171	End	678
GI	3096920	Score	334
Exons	171..533, 649..678		
GI Descrip.	(AL023094) putative ketoacyl-CoA synthase [Arabidopsis thaliana]		

Seq. No.	14505	Seq. ID	OJ990427_04.9922.C1

Gene No.	30955	Strand	-
Start	171	End	678
Name	OJ990427_04.9922.C1.o1.ts	Method	TBLASTX:Soybean
Start	174	End	515
GI	none	Score	91
Exons	174..515, 189..509, 256..513		

Seq. No.	14505	Seq. ID	OJ990427_04.9922.C1
Gene No.	30955	Strand	-
Start	171	End	678
Name	OJ990427_04.9922.C1.o1.tc	Method	TBLASTX:Cress
Start	177	End	513
GI	none	Score	193
Exons	177..512, 214..513		

Seq. No.	14505	Seq. ID	OJ990427_04.9922.C1
Gene No.	30955	Strand	-
Start	171	End	678
Name	OJ990427_04.9922.C1.o1.tm	Method	TBLASTX:Maize
Start	177	End	515
GI	none	Score	242
Exons	177..515, 178..513		

Seq. No.	14506	Seq. ID	OJ990427_04.9922.C4
Gene No.	30956	Strand	-
Start	1	End	1411
Name	OJ990427_04.9922.C4.o1.np	Method	AAT/NAP
Start	1	End	1411
GI	5902445	Score	1467
Exons	1..1411		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	14506	Seq. ID	OJ990427_04.9922.C4
Gene No.	30956	Strand	-
Start	1	End	1411
Name	OJ990427_04.9922.C4.o3.tw	Method	TBLASTX:Wheat
Start	3	End	378
GI	none	Score	52
Exons	3..143, 22..114, 150..272, 151..378, 153..377		

Seq. No.	14506	Seq. ID	OJ990427_04.9922.C4
Gene No.	30956	Strand	-
Start	1	End	1411
Name	OJ990427_04.9922.C4.o1.gs	Method	GENSCAN
Start	324	End	1274
GI	none	Score	.73
Exons	324..474, 673..1274		

Seq. No.	14506	Seq. ID	OJ990427_04.9922.C4
Gene No.	30956	Strand	-
Start	1	End	1411
Name	OJ990427_04.9922.C4.o1.ts	Method	TBLASTX:Soybean
Start	468	End	893
GI	none	Score	295
Exons	468..893		

Seq. No.	14506	Seq. ID	OJ990427_04.9922.C4

Gene No.	30956	Strand	-
Start	1	End	1411
Name	OJ990427_04.9922.C4.o2.tw	Method	TBLASTX:Wheat
Start	528	End	947
GI	none	Score	195
Exons	528..947, 565..837, 791..907		

Seq. No.	14506	Seq. ID	OJ990427_04.9922.C4
Gene No.	30956	Strand	-
Start	1	End	1411
Name	OJ990427_04.9922.C4.o2.tm	Method	TBLASTX:Maize
Start	621	End	1004
GI	none	Score	85
Exons	621..1004, 622..837		

Seq. No.	14506	Seq. ID	OJ990427_04.9922.C4
Gene No.	30956	Strand	-
Start	1	End	1411
Name	OJ990427_04.9922.C4.o1.tm	Method	TBLASTX:Maize
Start	1032	End	1388
GI	none	Score	153
Exons	1032..1334, 1032..1388, 1033..1347		

Seq. No.	14506	Seq. ID	OJ990427_04.9922.C4
Gene No.	30956	Strand	-
Start	1	End	1411
Name	OJ990427_04.9922.C4.o1.tw	Method	TBLASTX:Wheat
Start	1062	End	1410
GI	none	Score	304
Exons	1062..1409, 1063..1410		

Seq. No.	14507	Seq. ID	OJ990427_04.9922.C5
Gene No.	30957	Strand	-
Start	237	End	298
Name	OJ990427_04.9922.C5.o1.gs	Method	GENSCAN
Start	237	End	298
GI	none	Score	.64
Exons	237..298		

Seq. No.	14508	Seq. ID	OJ990427_04.9922.C6
Gene No.	30958	Strand	+
Start	1	End	268
Name	OJ990427_04.9922.C6.o1.gp	Method	AAT/GAP
Start	1	End	268
GI	38732_1.R1084	Score	449
Exons	1..268		
GI Descrip.	'6094554/gb|AAF03496.1|AC010676_6 2.0e-69 (AC010676) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	14508	Seq. ID	OJ990427_04.9922.C6
Gene No.	30959	Strand	-
Start	1	End	1035
Name	OJ990427_04.9922.C6.o1.np	Method	AAT/NAP
Start	1	End	1035
GI	6094554	Score	282
Exons	1..265, 977..1035		
GI Descrip.	(AC010676) putative protein kinase [Arabidopsis thaliana]		

gi|6714459|gb|AAF26145.1|AC008261_2 (AC008261) putative protein kinase [Arabidopsis thaliana]

Seq. No.	14508	Seq. ID	OJ990427_04.9922.C6
Gene No.	30959	Strand	-
Start	1	End	1035
Name	OJ990427_04.9922.C6.o1.tm	Method	TBLASTX:Maize
Start	1	End	269
GI	none	Score	96
Exons	1..99, 3..98, 9..233, 68..232, 200..262, 228..263, 231..269		

Seq. No.	14508	Seq. ID	OJ990427_04.9922.C6
Gene No.	30959	Strand	-
Start	1	End	1035
Name	OJ990427_04.9922.C6.o1.ts	Method	TBLASTX:Soybean
Start	1	End	269
GI	none	Score	72
Exons	1..105, 1..105, 3..98, 6..98, 68..232, 68..166, 69..233, 69..167, 230..256, 231..269		

Seq. No.	14508	Seq. ID	OJ990427_04.9922.C6
Gene No.	30959	Strand	-
Start	1	End	1035
Name	OJ990427_04.9922.C6.o1.tc	Method	TBLASTX:Cress
Start	21	End	269
GI	none	Score	60
Exons	21..98, 22..99, 89..232, 93..233, 231..269		

Seq. No.	14508	Seq. ID	OJ990427_04.9922.C6
Gene No.	30959	Strand	-
Start	1	End	1035
Name	OJ990427_04.9922.C6.o1.tw	Method	TBLASTX:Wheat
Start	101	End	274
GI	none	Score	116
Exons	101..232, 132..230, 134..232, 230..274, 231..269		

Seq. No.	14509	Seq. ID	OJ990427_04.9922.C7
Gene No.	30960	Strand	+
Start	72	End	140
Name	OJ990427_04.9922.C7.o1.gs	Method	GENSCAN
Start	72	End	140
GI	none	Score	.48
Exons	72..140		

Seq. No.	14510	Seq. ID	OJ990427_04.9922.C9
Gene No.	30961	Strand	-
Start	416	End	858
Name	OJ990427_04.9922.C9.o1.tw	Method	TBLASTX:Wheat
Start	409	End	638
GI	none	Score	60
Exons	409..474, 419..469, 471..638, 473..637		

Seq. No.	14510	Seq. ID	OJ990427_04.9922.C9
Gene No.	30961	Strand	-
Start	416	End	858
Name	OJ990427_04.9922.C9.o1.np	Method	AAT/NAP
Start	416	End	858

GI	3096920	Score	324
Exons	416..858		
GI Descrip.	(AL023094) putative ketoacyl-CoA synthase [Arabidopsis thaliana]		

Seq. No.	14510	Seq. ID	OJ990427_04.9922.C9
Gene No.	30961	Strand	-
Start	416	End	858
Name	OJ990427_04.9922.C9.o1.ts	Method	TBLASTX:Soybean
Start	419	End	760
GI	none	Score	89
Exons	419..760, 434..754, 501..758		

Seq. No.	14510	Seq. ID	OJ990427_04.9922.C9
Gene No.	30961	Strand	-
Start	416	End	858
Name	OJ990427_04.9922.C9.o1.tc	Method	TBLASTX:Cress
Start	422	End	758
GI	none	Score	185
Exons	422..757, 459..758		

Seq. No.	14510	Seq. ID	OJ990427_04.9922.C9
Gene No.	30961	Strand	-
Start	416	End	858
Name	OJ990427_04.9922.C9.o1.tm	Method	TBLASTX:Maize
Start	422	End	760
GI	none	Score	234
Exons	422..760, 423..758		

Seq. No.	14511	Seq. ID	OJ990427_04.9922.C11
Gene No.	30962	Strand	+
Start	1	End	469
Name	OJ990427_04.9922.C11.o1.gp	Method	AAT/GAP
Start	1	End	469
GI	60270_1.R1084	Score	870
Exons	1..469		
GI Descrip.	'3348077 1.0e-33 (AF078080) isochorismate synthase [Arabidopsis thaliana]'		

Seq. No.	14511	Seq. ID	OJ990427_04.9922.C11
Gene No.	30962	Strand	+
Start	1	End	469
Name	OJ990427_04.9922.C11.o1.gs	Method	GENSCAN
Start	46	End	233
GI	none	Score	1
Exons	46..233		

Seq. No.	14511	Seq. ID	OJ990427_04.9922.C11
Gene No.	30963	Strand	+
Start	6882	End	7081
Name	OJ990427_04.9922.C11.o4.gp	Method	AAT/GAP
Start	6882	End	7081
GI	3106969	Score	372
Exons	6882..7081		

Seq. No.	14511	Seq. ID	OJ990427_04.9922.C11
Gene No.	30964	Strand	-
Start	1249	End	7138

Name	OJ990427_04.9922.C11.o2.tm	Method	TBLASTX:Maize
Start	987	End	4796
GI	none	Score	60
Exons	987..1073, 1176..1196, 1325..1387, 1449..1511, 1468..1512, 4344..4436, 4355..4435, 4356..4445, 4357..4437, 4518..4610, 4519..4611, 4520..4612, 4736..4795, 4737..4796, 4738..4794		

Seq. No.	14511	Seq. ID	OJ990427_04.9922.C11
Gene No.	30964	Strand	-
Start	1249	End	7138
Name	OJ990427_04.9922.C11.o2.gs	Method	GENSCAN
Start	1249	End	6871
GI	none	Score	.74
Exons	1249..1364, 1842..1980, 2280..2313, 3051..3405, 4568..4610, 4737..4834, 4971..5055, 5214..5324, 6103..6177, 6313..6459, 6538..6654, 6754..6871		

Seq. No.	14511	Seq. ID	OJ990427_04.9922.C11
Gene No.	30964	Strand	-
Start	1249	End	7138
Name	OJ990427_04.9922.C11.o1.tc	Method	TBLASTX:Cress
Start	1467	End	6874
GI	none	Score	61
Exons	1467..1511, 1468..1512, 4518..4610, 4519..4593, 4737..4853, 4738..4836, 4975..5058, 5214..5330, 5227..5322, 5469..5534, 5656..5763, 5972..6046, 5973..6044, 6103..6180, 6113..6178, 6310..6465, 6535..6618, 6548..6628, 6742..6849, 6751..6873, 6752..6874		

Seq. No.	14511	Seq. ID	OJ990427_04.9922.C11
Gene No.	30964	Strand	-
Start	1249	End	7138
Name	OJ990427_04.9922.C11.o1.tm	Method	TBLASTX:Maize
Start	1672	End	5730
GI	none	Score	42
Exons	1672..1746, 1864..1887, 1885..1911, 4797..4835, 4798..4851, 4971..5033, 4973..5056, 4975..5058, 4976..5056, 5214..5330, 5216..5326, 5227..5334, 5455..5529, 5458..5526, 5466..5534, 5645..5728, 5646..5729, 5656..5730		

Seq. No.	14511	Seq. ID	OJ990427_04.9922.C11
Gene No.	30964	Strand	-
Start	1249	End	7138
Name	OJ990427_04.9922.C11.o1.np	Method	AAT/NAP
Start	4383	End	7138
GI	3348077	Score	774
Exons	4383..4432, 4518..4610, 4737..4834, 4971..5055, 5214..5320, 5462..5523, 5645..5763, 5972..6040, 6103..6177, 6313..6459, 6538..6654, 6754..6871, 7044..7138		
GI Descrip.	(AF078080) isochorismate synthase [Arabidopsis thaliana]		

Seq. No.	14511	Seq. ID	OJ990427_04.9922.C11
Gene No.	30964	Strand	-
Start	1249	End	7138
Name	OJ990427_04.9922.C11.o3.gp	Method	AAT/GAP
Start	4627	End	5379
GI	2427264	Score	824

Exons	4627..4834, 4971..5055, 5214..5379		
GI Descrip.	3348077 1.0e-33 (AF078080) isochorismate synthase [Arabidopsis thaliana]		

Seq. No.	14512	Seq. ID	OJ990427_04.9922.C12
Gene No.	30965	Strand	+
Start	138	End	337
Name	OJ990427_04.9922.C12.o1.gp	Method	AAT/GAP
Start	138	End	337
GI	3106969	Score	372
Exons	138..337		

Seq. No.	14512	Seq. ID	OJ990427_04.9922.C12
Gene No.	30966	Strand	-
Start	1	End	1448
Name	OJ990427_04.9922.C12.o1.np	Method	AAT/NAP
Start	1	End	1448
GI	4127688	Score	146
Exons	1..127, 1415..1448		
GI Descrip.	(AJ006065) isochorismate synthase [Catharanthus roseus]		

Seq. No.	14512	Seq. ID	OJ990427_04.9922.C12
Gene No.	30966	Strand	-
Start	1	End	1448
Name	OJ990427_04.9922.C12.o1.gs	Method	GENSCAN
Start	10	End	127
GI	none	Score	.43
Exons	10..127		

Seq. No.	14513	Seq. ID	OJ990427_04.9922.C13
Gene No.	30967	Strand	+
Start	194	End	314
Name	OJ990427_04.9922.C13.o1.gs	Method	GENSCAN
Start	194	End	314
GI	none	Score	.57
Exons	194..314		

Seq. No.	14513	Seq. ID	OJ990427_04.9922.C13
Gene No.	30968	Strand	-
Start	652	End	4580
Name	OJ990427_04.9922.C13.o2.gs	Method	GENSCAN
Start	652	End	4435
GI	none	Score	.77
Exons	652..669, 1474..1747, 2392..2600, 2688..2774, 3148..3258, 4195..4262, 4390..4435		

Seq. No.	14513	Seq. ID	OJ990427_04.9922.C13
Gene No.	30968	Strand	-
Start	652	End	4580
Name	OJ990427_04.9922.C13.o1.ts	Method	TBLASTX:Soybean
Start	1434	End	4430
GI	none	Score	78
Exons	1434..1595, 1436..1690, 1438..1722, 1448..1690, 1670..1747, 1699..1746, 2386..2598, 2388..2603, 2391..2597, 2685..2768, 2686..2742, 3145..3258, 4195..4269, 4212..4262, 4391..4429, 4392..4430		

Seq. No.	14513	Seq. ID	OJ990427_04.9922.C13
Gene No.	30968	Strand	-
Start	652	End	4580
Name	OJ990427_04.9922.C13.o1.tm	Method	TBLASTX:Maize
Start	1440	End	4450
GI	none	Score	342
Exons	1440..1586, 1442..1690, 1442..1690, 1444..1758, 1701..1748, 2389..2598, 2390..2599, 2391..2597, 2685..2774, 2686..2742, 2688..2744, 3145..3291, 3149..3259, 4193..4261, 4194..4262, 4195..4263, 4384..4410, 4387..4425, 4391..4450, 4391..4441		

Seq. No.	14513	Seq. ID	OJ990427_04.9922.C13
Gene No.	30968	Strand	-
Start	652	End	4580
Name	OJ990427_04.9922.C13.o1.tc	Method	TBLASTX:Cress
Start	1442	End	4430
GI	none	Score	243
Exons	1442..1690, 1444..1713, 1444..1767, 1703..1747, 2386..2598, 2388..2603, 2391..2597, 2688..2774, 2689..2742, 3145..3291, 4195..4269, 4212..4265, 4383..4430, 4391..4429		

Seq. No.	14513	Seq. ID	OJ990427_04.9922.C13
Gene No.	30968	Strand	-
Start	652	End	4580
Name	OJ990427_04.9922.C13.o1.np	Method	AAT/NAP
Start	1447	End	4435
GI	1172553	Score	1003
Exons	1447..1747, 2392..2600, 2688..2774, 3148..3258, 4195..4262, 4390..4435		
GI Descrip.	OUTER MITOCHONDRIAL MEMBRANE PROTEIN PORIN (VOLTAGE-DEPENDENT ANION-SELECTIVE CHANNEL PROTEIN) (VDAC) gi|456672|emb|CAA54788| (X77733) voltage dependent anion channel (VDAC) [Triticum aestivum]		

Seq. No.	14513	Seq. ID	OJ990427_04.9922.C13
Gene No.	30968	Strand	-
Start	652	End	4580
Name	OJ990427_04.9922.C13.o1.gp	Method	AAT/GAP
Start	1542	End	4580
GI	15680_2.R1084	Score	1632
Exons	1542..1747, 2392..2600, 2688..2774, 3148..3258, 4195..4262, 4390..4580		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30969	Strand	+
Start	3855	End	4870
Name	OJ990427_04.9922.C14.o1.gp	Method	AAT/GAP
Start	3855	End	4589
GI	none	Score	1278
Exons	3855..4589		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30969	Strand	+
Start	3855	End	4870
Name	OJ990427_04.9922.C14.o1.gs	Method	GENSCAN

Start	4070	End	4870
GI	none	Score	.8
Exons	4070..4182, 4714..4870		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30969	Strand	+
Start	3855	End	4870
Name	OJ990427_04.9922.C14.o2.gp	Method	AAT/GAP
Start	4504	End	4844
GI	none	Score	630
Exons	4504..4844		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30970	Strand	+
Start	5369	End	5586
Name	OJ990427_04.9922.C14.o3.gp	Method	AAT/GAP
Start	5369	End	5586
GI	none	Score	296
Exons	5369..5586		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o2.gs	Method	GENSCAN
Start	5641	End	15114
GI	none	Score	.67
Exons	5641..5998, 6219..6319, 6395..6486, 6702..6822, 7035..7196, 8192..8322, 8385..8488, 8987..9117, 11235..11596, 11636..11731, 12766..12889, 12977..13113, 13305..13440, 13549..13886, 14862..15114		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o1.np	Method	AAT/NAP
Start	5647	End	7223
GI	3928150	Score	1124
Exons	5647..6005, 6223..6319, 6395..6486, 6702..6822, 7035..7223		
GI Descrip.	(AJ131049) hypothetical protein [Cicer arietinum]		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o1.ts	Method	TBLASTX:Soybean
Start	5647	End	7226
GI	none	Score	346
Exons	5647..6009, 5657..5935, 6221..6322, 6224..6319, 6225..6386, 6394..6468, 6394..6474, 6395..6487, 6453..6494, 6676..6822, 6682..6825, 6702..6833, 7033..7224, 7035..7223, 7053..7226		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o2.tc	Method	TBLASTX:Cress
Start	5656	End	6304
GI	none	Score	280
Exons	5656..6009, 5669..5935, 6245..6304, 6251..6301		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o2.tm	Method	TBLASTX:Maize
Start	5659	End	5996
GI	none	Score	71
Exons	5659..5712, 5659..5994, 5660..5935, 5663..5995, 5979..5996		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o5.tw	Method	TBLASTX:Wheat
Start	5770	End	5935
GI	none	Score	65
Exons	5770..5820, 5771..5821, 5771..5830, 5812..5934, 5822..5935		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o3.tm	Method	TBLASTX:Maize
Start	6221	End	7233
GI	none	Score	132
Exons	6221..6322, 6224..6319, 6225..6341, 6380..6487, 6394..6471, 6447..6494, 6676..6822, 6702..6824, 6703..6825, 7033..7233, 7035..7232		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o3.tw	Method	TBLASTX:Wheat
Start	6221	End	6493
GI	none	Score	152
Exons	6221..6361, 6224..6319, 6225..6386, 6228..6320, 6380..6487, 6394..6486, 6395..6493		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o5.tc	Method	TBLASTX:Cress
Start	6395	End	7230
GI	none	Score	79
Exons	6395..6487, 6676..6822, 6702..6824, 6703..6828, 7033..7230, 7035..7223		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o2.tw	Method	TBLASTX:Wheat
Start	6698	End	7264
GI	none	Score	98
Exons	6698..6823, 6703..6822, 6705..6824, 7033..7233, 7034..7264, 7035..7232		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114

Name	OJ990427_04.9922.C14.o4.tw	Method	TBLASTX:Wheat
Start	9176	End	9508
GI	none	Score	231
Exons	9176..9508		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o4.gp	Method	AAT/GAP
Start	10982	End	13011
GI	38732_1.R1084	Score	1724
Exons	10982..11731, 12766..12889, 12977..13011		
GI Descrip.	'6094554/gb|AAF03496.1|AC010676_6 2.0e-69 (AC010676) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o1.tm	Method	TBLASTX:Maize
Start	10993	End	13716
GI	none	Score	42
Exons	10993..11046, 11125..11202, 11226..11303, 11227..11304, 11299..11334, 11342..11728, 11343..11669, 11343..11735, 11344..11724, 11345..11728, 12761..12889, 12763..12891, 12764..12904, 12765..12908, 12975..13112, 12977..13111, 12986..13114, 13300..13434, 13304..13441, 13305..13442, 13306..13440, 13533..13715, 13548..13715, 13549..13716, 13549..13716		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o2.np	Method	AAT/NAP
Start	11217	End	15093
GI	6094554	Score	1377
Exons	11217..11731, 12766..12889, 12977..13113, 13305..13440, 13549..13847, 14829..15093		
GI Descrip.	(AC010676) putative protein kinase [Arabidopsis thaliana] gi|6714459|gb|AAF26145.1|AC008261_2 (AC008261) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o3.ts	Method	TBLASTX:Soybean
Start	11281	End	11735
GI	none	Score	40
Exons	11281..11334, 11346..11633, 11364..11735, 11379..11657, 11380..11724, 11467..11634		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o3.tc	Method	TBLASTX:Cress
Start	11350	End	11717
GI	none	Score	169
Exons	11350..11670, 11385..11717		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o1.tw	Method	TBLASTX:Wheat
Start	11568	End	13108
GI	none	Score	130
Exons	11568..11735, 11600..11740, 12761..12889, 12764..12904, 12765..12905, 12975..13028, 12977..13033, 13040..13096, 13040..13108		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o4.tc	Method	TBLASTX:Cress
Start	12761	End	13111
GI	none	Score	121
Exons	12761..12889, 12764..12904, 12765..12890, 12980..13036, 12981..13025, 13019..13111, 13037..13108		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o2.ts	Method	TBLASTX:Soybean
Start	12764	End	13767
GI	none	Score	170
Exons	12764..12904, 12765..12905, 12975..13112, 12977..13111, 12989..13129, 13304..13441, 13306..13440, 13548..13736, 13549..13767, 13589..13765		

Seq. No.	14514	Seq. ID	OJ990427_04.9922.C14
Gene No.	30971	Strand	-
Start	5641	End	15114
Name	OJ990427_04.9922.C14.o1.tc	Method	TBLASTX:Cress
Start	13309	End	13770
GI	none	Score	100
Exons	13309..13437, 13309..13440, 13313..13441, 13549..13770, 13554..13709, 13589..13759		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30972	Strand	+
Start	127	End	576
Name	OJ990427_04.9922.C15.o1.gs	Method	GENSCAN
Start	127	End	576
GI	none	Score	.97
Exons	127..217, 405..576		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30973	Strand	-
Start	1863	End	8943
Name	OJ990427_04.9922.C15.o2.gs	Method	GENSCAN
Start	1863	End	8943
GI	none	Score	.6
Exons	1863..2068, 3678..3856, 3923..4221, 4296..4384, 4522..4609, 4701..4829, 5188..5280, 5376..6028, 6106..6189, 6445..6637, 6743..6901, 6995..7119, 7377..7544, 7906..7972, 8151..8275, 8392..8527, 8579..8776, 8905..8943		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30973	Strand	-
Start	1863	End	8943
Name	OJ990427_04.9922.C15.o1.np	Method	AAT/NAP
Start	3925	End	6670
GI	4741193	Score	1024
Exons	3925..4221, 4296..4384, 4504..4609, 4701..4829, 4992..5101, 5169..5280, 5661..6028, 6638..6670		
GI Descrip.	(AL049746) ABC transporter-like protein [Arabidopsis thaliana]		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30973	Strand	-
Start	1863	End	8943
Name	OJ990427_04.9922.C15.o2.np	Method	AAT/NAP
Start	3925	End	8743
GI	4741195	Score	2265
Exons	3925..4221, 4296..4384, 4504..4609, 4701..4829, 4992..5076, 5171..5280, 5376..5576, 5661..6028, 6106..6189, 6269..6394, 6475..6637, 6743..6901, 6995..7119, 7377..7496, 7906..8050, 8310..8743		
GI Descrip.	(AL049746) ABC transporter-like protein [Arabidopsis thaliana]		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30973	Strand	-
Start	1863	End	8943
Name	OJ990427_04.9922.C15.o1.gp	Method	AAT/GAP
Start	6108	End	6803
GI	58331_1.R1084	Score	682
Exons	6108..6189, 6269..6323, 6445..6637, 6743..6803		
GI Descrip.	'4741194/emb|CAB41860.1| 2.0e-36 (AL049746) ABC transporter-like protein [Arabidopsis thaliana]'		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30974	Strand	-
Start	10725	End	15288
Name	OJ990427_04.9922.C15.o2.tm	Method	TBLASTX:Maize
Start	3682	End	4624
GI	none	Score	181
Exons	3682..3840, 3683..3841, 3693..3854, 3932..4228, 3943..4257, 3943..4224, 4293..4331, 4294..4338, 4344..4397, 4505..4624		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30974	Strand	-
Start	10725	End	15288
Name	OJ990427_04.9922.C15.o2.ts	Method	TBLASTX:Soybean
Start	3689	End	4104
GI	none	Score	141
Exons	3689..3841, 3691..3840, 3938..4102, 3940..4104		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30974	Strand	-
Start	10725	End	15288
Name	OJ990427_04.9922.C15.o1.ts	Method	TBLASTX:Soybean
Start	4502	End	5202
GI	none	Score	120
Exons	4502..4609, 4503..4610, 4508..4615, 4692..4829, 4694..4792,		

4696..4830, 4701..4832, 4992..5075, 5008..5076, 5164..5202, 5171..5200

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30974	Strand	-
Start	10725	End	15288
Name	OJ990427_04.9922.C15.o3.tm	Method	TBLASTX:Maize
Start	4692	End	5271
GI	none	Score	164
Exons	4692..4829, 4693..4830, 4706..4834, 4975..5076, 4991..5083, 4992..5078, 5164..5271, 5170..5271		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30974	Strand	-
Start	10725	End	15288
Name	OJ990427_04.9922.C15.o2.tc	Method	TBLASTX:Cress
Start	5158	End	5576
GI	none	Score	80
Exons	5158..5262, 5373..5576, 5392..5514		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30974	Strand	-
Start	10725	End	15288
Name	OJ990427_04.9922.C15.o1.tm	Method	TBLASTX:Maize
Start	5475	End	6201
GI	none	Score	113
Exons	5475..5576, 5475..5585, 5477..5593, 5661..5726, 5661..6026, 5663..5863, 5668..6027, 5808..6029, 6103..6198, 6107..6199, 6108..6200, 6109..6201		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30974	Strand	-
Start	10725	End	15288
Name	OJ990427_04.9922.C15.o1.tw	Method	TBLASTX:Wheat
Start	5660	End	6038
GI	none	Score	62
Exons	5660..5752, 5662..5751, 5767..6027, 5781..6038		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30974	Strand	-
Start	10725	End	15288
Name	OJ990427_04.9922.C15.o3.ts	Method	TBLASTX:Soybean
Start	5799	End	6032
GI	none	Score	100
Exons	5799..6032, 5800..6018		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30974	Strand	-
Start	10725	End	15288
Name	OJ990427_04.9922.C15.o1.tc	Method	TBLASTX:Cress
Start	6096	End	6404
GI	none	Score	67
Exons	6096..6173, 6101..6190, 6267..6404, 6268..6402		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30974	Strand	-
Start	10725	End	15288

Name	OJ990427_04.9922.C15.o4.tm	Method	TBLASTX:Maize
Start	6276	End	6601
GI	none	Score	75
Exons	6276..6398, 6277..6396, 6473..6601, 6488..6577		

Seq. No.	14515	Seq. ID	OJ990427_04.9922.C15
Gene No.	30974	Strand	-
Start	10725	End	15288
Name	OJ990427_04.9922.C15.o3.gs	Method	GENSCAN
Start	10725	End	15288
GI	none	Score	.63
Exons	10725..10918, 11921..11976, 13185..13267, 13727..13777, 14144..14270, 15218..15288		

Seq. No.	14516	Seq. ID	OJ990427_04.9922.C16
Gene No.	30975	Strand	+
Start	1	End	3436
Name	OJ990427_04.9922.C16.o1.np	Method	AAT/NAP
Start	1	End	2893
GI	5042454	Score	228
Exons	1..68, 2135..2166, 2392..2567, 2840..2893		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	14516	Seq. ID	OJ990427_04.9922.C16
Gene No.	30975	Strand	+
Start	1	End	3436
Name	OJ990427_04.9922.C16.o1.gs	Method	GENSCAN
Start	2184	End	3436
GI	none	Score	.54
Exons	2184..2252, 2478..2567, 2840..3010, 3338..3436		

Seq. No.	14516	Seq. ID	OJ990427_04.9922.C16
Gene No.	30976	Strand	-
Start	5302	End	5448
Name	OJ990427_04.9922.C16.o2.gs	Method	GENSCAN
Start	5302	End	5448
GI	none	Score	.5
Exons	5302..5448		

Seq. No.	14517	Seq. ID	OJ990427_04.9922.C17
Gene No.	30977	Strand	+
Start	181	End	342
Name	OJ990427_04.9922.C17.o1.gp	Method	AAT/GAP
Start	181	End	342
GI	1340_1.R1084	Score	214
Exons	181..342		
GI Descrip.	'5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	14517	Seq. ID	OJ990427_04.9922.C17
Gene No.	30978	Strand	-
Start	194	End	5620
Name	OJ990427_04.9922.C17.o1.tm	Method	TBLASTX:Maize
Start	179	End	336
GI	none	Score	198
Exons	179..319, 183..320, 183..320, 193..336		

Seq. No.	14517	Seq. ID	OJ990427_04.9922.C17
Gene No.	30978	Strand	-
Start	194	End	5620
Name	OJ990427_04.9922.C17.o1.gs	Method	GENSCAN
Start	194	End	5620
GI	none	Score	.5
Exons	194..332, 554..703, 929..975, 4151..4284, 5500..5620		

Seq. No.	14518	Seq. ID	OJ990427_04.9922.C19
Gene No.	30979	Strand	+
Start	1	End	1356
Name	OJ990427_04.9922.C19.o1.np	Method	AAT/NAP
Start	1	End	1123
GI	4091810	Score	562
Exons	1..56, 211..1123		
GI Descrip.	(AF053345) fatty acid elongase 3-ketoacyl-CoA synthase 1 [Arabidopsis thaliana]		

Seq. No.	14518	Seq. ID	OJ990427_04.9922.C19
Gene No.	30979	Strand	+
Start	1	End	1356
Name	OJ990427_04.9922.C19.o1.gs	Method	GENSCAN
Start	163	End	1356
GI	none	Score	.95
Exons	163..1073, 1311..1356		

Seq. No.	14518	Seq. ID	OJ990427_04.9922.C19
Gene No.	30979	Strand	+
Start	1	End	1356
Name	OJ990427_04.9922.C19.o1.tc	Method	TBLASTX:Cress
Start	268	End	1064
GI	none	Score	266
Exons	268..711, 354..593, 645..695, 697..1056, 766..879, 873..1064		

Seq. No.	14518	Seq. ID	OJ990427_04.9922.C19
Gene No.	30979	Strand	+
Start	1	End	1356
Name	OJ990427_04.9922.C19.o1.tm	Method	TBLASTX:Maize
Start	268	End	1064
GI	none	Score	95
Exons	268..423, 354..608, 466..714, 643..672, 645..713, 730..1059, 732..818, 751..882, 873..1064		

Seq. No.	14518	Seq. ID	OJ990427_04.9922.C19
Gene No.	30979	Strand	+
Start	1	End	1356
Name	OJ990427_04.9922.C19.o1.ts	Method	TBLASTX:Soybean
Start	349	End	1064
GI	none	Score	260
Exons	349..714, 351..608, 645..695, 697..1059, 732..815, 873..1064		

Seq. No.	14519	Seq. ID	OJ990427_04.9922.C20
Gene No.	30980	Strand	+
Start	1	End	2316
Name	OJ990427_04.9922.C20.o1.np	Method	AAT/NAP
Start	1	End	2241
GI	3096920	Score	332

Exons	1..24, 1871..2241		
GI Descrip.	(AL023094) putative ketoacyl-CoA synthase [Arabidopsis thaliana]		
Seq. No.	14519	Seq. ID	OJ990427_04.9922.C20
Gene No.	30980	Strand	+
Start	1	End	2316
Name	OJ990427_04.9922.C20.o1.gs	Method	GENSCAN
Start	1827	End	2316
GI	none	Score	.63
Exons	1827..1835, 1882..2316		
Seq. No.	14519	Seq. ID	OJ990427_04.9922.C20
Gene No.	30980	Strand	+
Start	1	End	2316
Name	OJ990427_04.9922.C20.o1.tm	Method	TBLASTX:Maize
Start	1897	End	2235
GI	none	Score	361
Exons	1897..2235, 1899..2234		
Seq. No.	14519	Seq. ID	OJ990427_04.9922.C20
Gene No.	30980	Strand	+
Start	1	End	2316
Name	OJ990427_04.9922.C20.o1.ts	Method	TBLASTX:Soybean
Start	1897	End	2238
GI	none	Score	338
Exons	1897..2238, 1899..2156, 1903..2223		
Seq. No.	14519	Seq. ID	OJ990427_04.9922.C20
Gene No.	30980	Strand	+
Start	1	End	2316
Name	OJ990427_04.9922.C20.o1.tc	Method	TBLASTX:Cress
Start	1899	End	2235
GI	none	Score	357
Exons	1899..2198, 1900..2235		
Seq. No.	14519	Seq. ID	OJ990427_04.9922.C20
Gene No.	30980	Strand	+
Start	1	End	2316
Name	OJ990427_04.9922.C20.o1.tw	Method	TBLASTX:Wheat
Start	2019	End	2248
GI	none	Score	192
Exons	2019..2186, 2020..2184, 2183..2248, 2188..2238		
Seq. No.	14520	Seq. ID	OJ990427_04.9922.C21
Gene No.	30981	Strand	+
Start	942	End	1768
Name	OJ990427_04.9922.C21.o1.gs	Method	GENSCAN
Start	942	End	1768
GI	none	Score	.59
Exons	942..973, 1663..1768		
Seq. No.	14520	Seq. ID	OJ990427_04.9922.C21
Gene No.	30982	Strand	-
Start	3069	End	7340
Name	OJ990427_04.9922.C21.o1.gp	Method	AAT/GAP
Start	2745	End	7320
GI	8345_1.R1084	Score	1509

Exons	2745..3413, 4893..4973, 7250..7320		
GI Descrip.	'4538913/emb|CAB39650.1| 1.0e-16 (AL049482) putative protein [Arabidopsis thaliana]'		

Seq. No.	14520	Seq. ID	OJ990427_04.9922.C21
Gene No.	30982	Strand	-
Start	3069	End	7340
Name	OJ990427_04.9922.C21.o1.tm	Method	TBLASTX:Maize
Start	2806	End	7340
GI	none	Score	48
Exons	2806..2838, 2806..2838, 2810..2839, 2866..2976, 2867..2899, 2928..3413, 2969..3421, 3020..3415, 3022..3417, 4882..4950, 4893..4973, 4893..4973, 4894..4974, 7248..7340, 7250..7339		

Seq. No.	14520	Seq. ID	OJ990427_04.9922.C21
Gene No.	30982	Strand	-
Start	3069	End	7340
Name	OJ990427_04.9922.C21.o2.gs	Method	GENSCAN
Start	3069	End	7297
GI	none	Score	.73
Exons	3069..3413, 4893..4973, 7250..7297		

Seq. No.	14520	Seq. ID	OJ990427_04.9922.C21
Gene No.	30982	Strand	-
Start	3069	End	7340
Name	OJ990427_04.9922.C21.o1.np	Method	AAT/NAP
Start	3093	End	7340
GI	4538913	Score	264
Exons	3093..3413, 4893..4973, 7250..7340		
GI Descrip.	(AL049482) putative protein [Arabidopsis thaliana]		

Seq. No.	14521	Seq. ID	OJ990427_04.9922.C22
Gene No.	30983	Strand	+
Start	1	End	2217
Name	OJ990427_04.9922.C22.o1.np	Method	AAT/NAP
Start	1	End	2217
GI	6721512	Score	122
Exons	1..144, 1242..1355, 1383..1532, 2156..2217		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14521	Seq. ID	OJ990427_04.9922.C22
Gene No.	30984	Strand	-
Start	1141	End	1292
Name	OJ990427_04.9922.C22.o1.gs	Method	GENSCAN
Start	1141	End	1292
GI	none	Score	.75
Exons	1141..1292		

Seq. No.	14521	Seq. ID	OJ990427_04.9922.C22
Gene No.	30985	Strand	-
Start	1842	End	2012
Name	OJ990427_04.9922.C22.o1.gp	Method	AAT/GAP
Start	1842	End	2012
GI	LIB3433-026-P1-K1-C1	Score	230
Exons	1842..2012		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	14522	Seq. ID	OJ990427_04.9922.C23
Gene No.	30986	Strand	+
Start	397	End	496
Name	OJ990427_04.9922.C23.o1.gs	Method	GENSCAN
Start	397	End	496
GI	none	Score	.49
Exons	397..496		

Seq. No.	14523	Seq. ID	OJ990427_04.9922.C24
Gene No.	30987	Strand	+
Start	12	End	2162
Name	OJ990427_04.9922.C24.o1.gs	Method	GENSCAN
Start	12	End	2162
GI	none	Score	.45
Exons	12..104, 478..646, 813..937, 1050..1196, 1267..1325, 1396..1498, 1722..2162		

Seq. No.	14523	Seq. ID	OJ990427_04.9922.C24
Gene No.	30987	Strand	+
Start	12	End	2162
Name	OJ990427_04.9922.C24.o1.np	Method	AAT/NAP
Start	12	End	1771
GI	6721558	Score	240
Exons	12..111, 813..937, 1554..1771		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	14523	Seq. ID	OJ990427_04.9922.C24
Gene No.	30987	Strand	+
Start	12	End	2162
Name	OJ990427_04.9922.C24.o2.np	Method	AAT/NAP
Start	941	End	2159
GI	6721561	Score	1132
Exons	941..1196, 1267..1325, 1396..2159		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14523	Seq. ID	OJ990427_04.9922.C24
Gene No.	30988	Strand	-
Start	3917	End	6873
Name	OJ990427_04.9922.C24.o2.gs	Method	GENSCAN
Start	3917	End	6576
GI	none	Score	.43
Exons	3917..4066, 4071..4178, 4823..5017, 5186..5595, 5674..5914, 5996..6576		

Seq. No.	14523	Seq. ID	OJ990427_04.9922.C24
Gene No.	30988	Strand	-
Start	3917	End	6873
Name	OJ990427_04.9922.C24.o3.np	Method	AAT/NAP
Start	4773	End	6873
GI	5902445	Score	1591

Exons	4773..5887, 5929..6873		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	14523	Seq. ID	OJ990427_04.9922.C24
Gene No.	30988	Strand	-
Start	3917	End	6873
Name	OJ990427_04.9922.C24.o1.tw	Method	TBLASTX:Wheat
Start	4782	End	5362
GI	none	Score	186
Exons	4782..4913, 4938..5165, 5147..5362		
Seq. No.	14523	Seq. ID	OJ990427_04.9922.C24
Gene No.	30988	Strand	-
Start	3917	End	6873
Name	OJ990427_04.9922.C24.o2.tm	Method	TBLASTX:Maize
Start	4905	End	5165
GI	none	Score	188
Exons	4905..5165		
Seq. No.	14523	Seq. ID	OJ990427_04.9922.C24
Gene No.	30988	Strand	-
Start	3917	End	6873
Name	OJ990427_04.9922.C24.o1.tm	Method	TBLASTX:Maize
Start	5567	End	5881
GI	none	Score	72
Exons	5567..5881, 5619..5762		
Seq. No.	14523	Seq. ID	OJ990427_04.9922.C24
Gene No.	30988	Strand	-
Start	3917	End	6873
Name	OJ990427_04.9922.C24.o3.tw	Method	TBLASTX:Wheat
Start	5567	End	5878
GI	none	Score	186
Exons	5567..5878		
Seq. No.	14523	Seq. ID	OJ990427_04.9922.C24
Gene No.	30988	Strand	-
Start	3917	End	6873
Name	OJ990427_04.9922.C24.o4.tw	Method	TBLASTX:Wheat
Start	5972	End	6229
GI	none	Score	55
Exons	5972..6229, 5976..6131		
Seq. No.	14523	Seq. ID	OJ990427_04.9922.C24
Gene No.	30988	Strand	-
Start	3917	End	6873
Name	OJ990427_04.9922.C24.o2.tw	Method	TBLASTX:Wheat
Start	6269	End	6677
GI	none	Score	52
Exons	6269..6442, 6321..6413, 6450..6677, 6452..6676		
Seq. No.	14524	Seq. ID	OJ990427_04.9922.C25
Gene No.	30989	Strand	+
Start	1394	End	1546
Name	OJ990427_04.9922.C25.o1.gp	Method	AAT/GAP
Start	1394	End	1546
GI	uC-osflcyp177g01a1	Score	235

Exons	1394..1546		
GI Descrip.	'4884864/gb|AAD31846.1|AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		
Seq. No.	14524	Seq. ID	OJ990427_04.9922.C25
Gene No.	30990	Strand	+
Start	2850	End	5792
Name	OJ990427_04.9922.C25.o1.np	Method	AAT/NAP
Start	2850	End	5789
GI	6691716	Score	2319
Exons	2850..3734, 3932..4107, 4190..4469, 4640..4828, 4905..5008, 5159..5271, 5344..5789		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	14524	Seq. ID	OJ990427_04.9922.C25
Gene No.	30990	Strand	+
Start	2850	End	5792
Name	OJ990427_04.9922.C25.o2.gs	Method	GENSCAN
Start	2850	End	5792
GI	none	Score	.89
Exons	2850..3734, 3932..4107, 4190..4521, 4641..4828, 4905..5094, 5167..5271, 5344..5792		
Seq. No.	14524	Seq. ID	OJ990427_04.9922.C25
Gene No.	30991	Strand	-
Start	30	End	1115
Name	OJ990427_04.9922.C25.o1.gs	Method	GENSCAN
Start	30	End	1115
GI	none	Score	.44
Exons	30..194, 282..1115		
Seq. No.	14524	Seq. ID	OJ990427_04.9922.C25
Gene No.	30992	Strand	-
Start	5811	End	8234
Name	OJ990427_04.9922.C25.o1.tw	Method	TBLASTX:Wheat
Start	120	End	887
GI	none	Score	139
Exons	120..374, 121..285, 432..668, 442..666, 705..887, 706..879		
Seq. No.	14524	Seq. ID	OJ990427_04.9922.C25
Gene No.	30992	Strand	-
Start	5811	End	8234
Name	OJ990427_04.9922.C25.o2.tw	Method	TBLASTX:Wheat
Start	2970	End	3260
GI	none	Score	218
Exons	2970..3260, 3152..3223		
Seq. No.	14524	Seq. ID	OJ990427_04.9922.C25
Gene No.	30992	Strand	-
Start	5811	End	8234
Name	OJ990427_04.9922.C25.o2.np	Method	AAT/NAP
Start	5811	End	8234
GI	6721562	Score	422
Exons	5811..5881, 6437..7045, 7295..7726, 8111..8234		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster;		

hypothetical protein. (AF031569) [Oryza sativa]
gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]

Seq. No.	14524	Seq. ID	OJ990427_04.9922.C25
Gene No.	30992	Strand	-
Start	5811	End	8234
Name	OJ990427_04.9922.C25.o3.tw	Method	TBLASTX:Wheat
Start	6562	End	6958
GI	none	Score	47
Exons	6562..6729, 6729..6821, 6737..6835, 6800..6907, 6804..6896, 6908..6958		

Seq. No.	14525	Seq. ID	OJ990427_04.9922.C26
Gene No.	30993	Strand	-
Start	577	End	3289
Name	OJ990427_04.9922.C26.o1.np	Method	AAT/NAP
Start	577	End	3289
GI	6063554	Score	163
Exons	577..748, 1800..1864, 1963..2146, 2253..2473, 3153..3289		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14526	Seq. ID	OJ990427_04.9922.C27
Gene No.	30994	Strand	+
Start	22	End	93
Name	OJ990427_04.9922.C27.o1.gs	Method	GENSCAN
Start	22	End	93
GI	none	Score	.8
Exons	22..93		

Seq. No.	14527	Seq. ID	OJ990427_04.9922.C29
Gene No.	30995	Strand	-
Start	1	End	738
Name	OJ990427_04.9922.C29.o1.np	Method	AAT/NAP
Start	1	End	738
GI	5882719	Score	204
Exons	1..70, 198..295, 432..516, 675..738		
GI Descrip.	(AC008263) Identical to gb|AF078080 isochorismate synthase from Arabidopsis thaliana. ESTs gb|R90272, gb|AI100274 and gb|T42189 come from this gene. gi|6539271|gb|AAF15941.1|AC011765_37 (AC011765) isochorismate synthase (icsI) [Arabidopsis thaliana]		

Seq. No.	14527	Seq. ID	OJ990427_04.9922.C29
Gene No.	30995	Strand	-
Start	1	End	738
Name	OJ990427_04.9922.C29.o1.gp	Method	AAT/GAP
Start	88	End	738
GI	2427264	Score	616
Exons	88..295, 432..516, 675..738		
GI Descrip.	3348077 1.0e-33 (AF078080) isochorismate synthase [Arabidopsis thaliana]		

Seq. No.	14527	Seq. ID	OJ990427_04.9922.C29
Gene No.	30995	Strand	-

Start	1	End	738
Name	OJ990427_04.9922.C29.o1.tc	Method	TBLASTX:Cress
Start	198	End	737
GI	none	Score	116
Exons	198..314, 199..297, 436..519, 675..737		

Seq. No.	14527	Seq. ID	OJ990427_04.9922.C29
Gene No.	30995	Strand	-
Start	1	End	738
Name	OJ990427_04.9922.C29.o1.tm	Method	TBLASTX:Maize
Start	198	End	522
GI	none	Score	114
Exons	198..296, 198..299, 199..297, 427..522, 428..517, 429..518	205..303, 221..304, 392..517,	

Seq. No.	14527	Seq. ID	OJ990427_04.9922.C29
Gene No.	30995	Strand	-
Start	1	End	738
Name	OJ990427_04.9922.C29.o1.gs	Method	GENSCAN
Start	239	End	695
GI	none	Score	.62
Exons	239..295, 432..516, 675..695		

Seq. No.	14528	Seq. ID	OJ990427_04.9922.C30
Gene No.	30996	Strand	+
Start	144	End	273
Name	OJ990427_04.9922.C30.o1.gs	Method	GENSCAN
Start	144	End	273
GI	none	Score	.6
Exons	144..273		

Seq. No.	14529	Seq. ID	OJ990407_07.9922.C2
Gene No.	30997	Strand	+
Start	299	End	357
Name	OJ990407_07.9922.C2.o1.gs	Method	GENSCAN
Start	299	End	357
GI	none	Score	.44
Exons	299..357		

Seq. No.	14530	Seq. ID	OJ990407_07.9922.C3
Gene No.	30998	Strand	-
Start	599	End	678
Name	OJ990407_07.9922.C3.o1.gp	Method	AAT/GAP
Start	599	End	678
GI	none	Score	128
Exons	599..678		

Seq. No.	14531	Seq. ID	OJ990407_07.9922.C4
Gene No.	30999	Strand	+
Start	185	End	320
Name	OJ990407_07.9922.C4.o1.gs	Method	GENSCAN
Start	185	End	320
GI	none	Score	.99
Exons	185..320		

Seq. No.	14532	Seq. ID	OJ990407_07.9922.C5
Gene No.	31000	Strand	-

Start	200	End	679
Name	OJ990407_07.9922.C5.o1.tm	Method	TBLASTX:Maize
Start	193	End	659
GI	none	Score	70
Exons	193..240, 194..241, 194..271, 385..441, 386..442, 386..442,	195..275, 325..408, 335..385, 584..658, 585..659, 585..659	

Seq. No.	14532	Seq. ID	OJ990407_07.9922.C5
Gene No.	31000	Strand	-
Start	200	End	679
Name	OJ990407_07.9922.C5.o1.gp	Method	AAT/GAP
Start	200	End	679
GI	LIB3433-054-P1-K1-D7	Score	424
Exons	200..241, 334..440, 583..679		
GI Descrip.	'4678330/emb|CAB41141.1| 9.0e-27 (AL049658) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	14532	Seq. ID	OJ990407_07.9922.C5
Gene No.	31000	Strand	-
Start	200	End	679
Name	OJ990407_07.9922.C5.o1.tc	Method	TBLASTX:Cress
Start	325	End	679
GI	none	Score	97
Exons	325..441, 338..442, 584..679		

Seq. No.	14532	Seq. ID	OJ990407_07.9922.C5
Gene No.	31000	Strand	-
Start	200	End	679
Name	OJ990407_07.9922.C5.o1.np	Method	AAT/NAP
Start	532	End	679
GI	4678330	Score	98
Exons	532..679		
GI Descrip.	(AL049658) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14533	Seq. ID	OJ990407_07.9922.C7
Gene No.	31001	Strand	+
Start	1	End	1119
Name	OJ990407_07.9922.C7.o1.np	Method	AAT/NAP
Start	1	End	1119
GI	6815053	Score	709
Exons	1..136, 658..833, 883..1119		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	14533	Seq. ID	OJ990407_07.9922.C7
Gene No.	31001	Strand	+
Start	1	End	1119
Name	OJ990407_07.9922.C7.o1.gs	Method	GENSCAN
Start	480	End	1078
GI	none	Score	.75
Exons	480..598, 717..842, 883..1078		

Seq. No.	14533	Seq. ID	OJ990407_07.9922.C7
Gene No.	31002	Strand	+
Start	5846	End	7893
Name	OJ990407_07.9922.C7.o1.gp	Method	AAT/GAP
Start	5780	End	6553
GI	none	Score	926

Exons	5780..6167, 6447..6553		
Seq. No.	14533	Seq. ID	OJ990407_07.9922.C7
Gene No.	31002	Strand	+
Start	5846	End	7893
Name	OJ990407_07.9922.C7.o3.gs	Method	GENSCAN
Start	5846	End	7893
GI	none	Score	.8
Exons	5846..6167, 6447..6580, 7846..7893		
Seq. No.	14533	Seq. ID	OJ990407_07.9922.C7
Gene No.	31002	Strand	+
Start	5846	End	7893
Name	OJ990407_07.9922.C7.o2.np	Method	AAT/NAP
Start	6461	End	7380
GI	4678330	Score	295
Exons	6461..6580, 7182..7380		
GI Descrip.	(AL049658) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	14533	Seq. ID	OJ990407_07.9922.C7
Gene No.	31003	Strand	-
Start	7709	End	7978
Name	OJ990407_07.9922.C7.o1.tm	Method	TBLASTX:Maize
Start	6121	End	7587
GI	none	Score	193
Exons	6121..6174, 6442..6588, 6443..6580, 6450..6581, 7179..7328, 7181..7327, 7449..7583, 7470..7577, 7471..7587		
Seq. No.	14533	Seq. ID	OJ990407_07.9922.C7
Gene No.	31003	Strand	-
Start	7709	End	7978
Name	OJ990407_07.9922.C7.o1.tc	Method	TBLASTX:Cress
Start	6433	End	7587
GI	none	Score	69
Exons	6433..6576, 6433..6576, 6443..6580, 7179..7328, 7181..7327, 7470..7574, 7471..7587		
Seq. No.	14533	Seq. ID	OJ990407_07.9922.C7
Gene No.	31003	Strand	-
Start	7709	End	7978
Name	OJ990407_07.9922.C7.o1.ts	Method	TBLASTX:Soybean
Start	6442	End	7542
GI	none	Score	141
Exons	6442..6576, 6443..6580, 7179..7328, 7181..7327, 7185..7331, 7447..7542, 7471..7542		
Seq. No.	14533	Seq. ID	OJ990407_07.9922.C7
Gene No.	31003	Strand	-
Start	7709	End	7978
Name	OJ990407_07.9922.C7.o2.gp	Method	AAT/GAP
Start	7709	End	7978
GI	none	Score	536
Exons	7709..7978		
Seq. No.	14534	Seq. ID	OJ990407_07.9922.C8
Gene No.	31004	Strand	-
Start	309	End	2373

Name	OJ990407_07.9922.C8.o1.gs	Method	GENSCAN
Start	309	End	2245
GI	none	Score	.75
Exons	309..1988, 2078..2245		

Seq. No.	14534	Seq. ID	OJ990407_07.9922.C8
Gene No.	31004	Strand	-
Start	309	End	2373
Name	OJ990407_07.9922.C8.o3.tm	Method	TBLASTX:Maize
Start	309	End	645
GI	none	Score	152
Exons	309..629, 310..642, 315..638, 364..645		

Seq. No.	14534	Seq. ID	OJ990407_07.9922.C8
Gene No.	31004	Strand	-
Start	309	End	2373
Name	OJ990407_07.9922.C8.o1.np	Method	AAT/NAP
Start	353	End	2373
GI	4503617	Score	188
Exons	353..1058, 2344..2373		
GI Descrip.	exostoses (multiple)-like 3 gi|6166159|sp|O43909|EXL3_HUMAN EXOSTOSIN-LIKE 3 (PUTATIVE TUMOUR SUPPRESSOR PROTEIN EXTL3) (MULTIPLE EXOSTOSIS-LIKE PROTEIN 3) (HEREDITARY MULTIPLE EXOSTOSES GENE ISOLOG) (KIAA0519) gi|2723391|dbj|BAA24080| (AB007042) EXTR1 [Homo sapiens] gi|2897905 (AF001690) EXT like protein 3 [Homo sapiens] gi|3043562|dbj|BAA25445| (AB011091) KIAA0519 p		

Seq. No.	14534	Seq. ID	OJ990407_07.9922.C8
Gene No.	31004	Strand	-
Start	309	End	2373
Name	OJ990407_07.9922.C8.o1.ts	Method	TBLASTX:Soybean
Start	454	End	1199
GI	none	Score	56
Exons	454..498, 459..509, 495..1199, 502..1128		

Seq. No.	14534	Seq. ID	OJ990407_07.9922.C8
Gene No.	31004	Strand	-
Start	309	End	2373
Name	OJ990407_07.9922.C8.o1.tc	Method	TBLASTX:Cress
Start	519	End	1007
GI	none	Score	64
Exons	519..572, 632..679, 714..902, 718..867, 921..1007		

Seq. No.	14534	Seq. ID	OJ990407_07.9922.C8
Gene No.	31004	Strand	-
Start	309	End	2373
Name	OJ990407_07.9922.C8.o1.tm	Method	TBLASTX:Maize
Start	648	End	1112
GI	none	Score	236
Exons	648..1112, 651..1097, 673..1101		

Seq. No.	14534	Seq. ID	OJ990407_07.9922.C8
Gene No.	31004	Strand	-
Start	309	End	2373
Name	OJ990407_07.9922.C8.o1.gp	Method	AAT/GAP
Start	1097	End	1542

GI	1632088	Score	773
Exons	1097..1542		

Seq. No.	14534	Seq. ID	OJ990407_07.9922.C8
Gene No.	31004	Strand	-
Start	309	End	2373
Name	OJ990407_07.9922.C8.o2.tm	Method	TBLASTX:Maize
Start	1269	End	1788
GI	none	Score	484
Exons	1269..1787, 1269..1787, 1681..1788		

Seq. No.	14534	Seq. ID	OJ990407_07.9922.C8
Gene No.	31004	Strand	-
Start	309	End	2373
Name	OJ990407_07.9922.C8.o2.ts	Method	TBLASTX:Soybean
Start	1407	End	2248
GI	none	Score	66
Exons	1407..1469, 1411..1464, 1476..1541, 1476..1877, 1477..1617, 1569..1970, 1649..1969, 1956..1991, 2075..2110, 2129..2248, 2139..2246		

Seq. No.	14535	Seq. ID	OJ990407_07.9922.C10
Gene No.	31005	Strand	-
Start	74	End	972
Name	OJ990407_07.9922.C10.o1.gs	Method	GENSCAN
Start	74	End	783
GI	none	Score	.97
Exons	74..187, 691..783		

Seq. No.	14535	Seq. ID	OJ990407_07.9922.C10
Gene No.	31005	Strand	-
Start	74	End	972
Name	OJ990407_07.9922.C10.o1.np	Method	AAT/NAP
Start	624	End	972
GI	6630729	Score	195
Exons	624..783, 876..972		
GI Descrip.	(AL132958) putative protein [Arabidopsis thaliana]		

Seq. No.	14536	Seq. ID	OJ990407_07.9922.C13
Gene No.	31006	Strand	+
Start	72	End	1224
Name	OJ990407_07.9922.C13.o1.gs	Method	GENSCAN
Start	72	End	564
GI	none	Score	.68
Exons	72..371, 442..564		

Seq. No.	14536	Seq. ID	OJ990407_07.9922.C13
Gene No.	31006	Strand	+
Start	72	End	1224
Name	OJ990407_07.9922.C13.o1.np	Method	AAT/NAP
Start	418	End	1224
GI	6630729	Score	89
Exons	418..591, 1081..1224		
GI Descrip.	(AL132958) putative protein [Arabidopsis thaliana]		

Seq. No.	14537	Seq. ID	OJ990407_07.9922.C15
Gene No.	31007	Strand	+

Start	1147	End	1570
Name	OJ990407_07.9922.C15.o1.gs	Method	GENSCAN
Start	1147	End	1570
GI	none	Score	.82
Exons	1147..1169, 1477..1570		

Seq. No.	14537	Seq. ID	OJ990407_07.9922.C15
Gene No.	31008	Strand	-
Start	2815	End	7920
Name	OJ990407_07.9922.C15.o2.gs	Method	GENSCAN
Start	2815	End	7920
GI	none	Score	.75
Exons	2815..2864, 2981..3063, 4333..4440, 4491..4536, 4725..4835, 5048..5169, 5717..5847, 6296..6386, 6487..6572, 7843..7920		

Seq. No.	14537	Seq. ID	OJ990407_07.9922.C15
Gene No.	31008	Strand	-
Start	2815	End	7920
Name	OJ990407_07.9922.C15.o1.tc	Method	TBLASTX:Cress
Start	2985	End	4885
GI	none	Score	83
Exons	2985..3023, 4329..4415, 4347..4415, 4712..4885, 4726..4884		

Seq. No.	14537	Seq. ID	OJ990407_07.9922.C15
Gene No.	31008	Strand	-
Start	2815	End	7920
Name	OJ990407_07.9922.C15.o1.gp	Method	AAT/GAP
Start	4309	End	6578
GI	11159_1.R1084	Score	1064
Exons	4309..4413, 4491..4536, 4725..4890, 4967..5047, 5779..5847, 6296..6386, 6487..6578		
GI Descrip.	'2264315/dbj|AB005243.1|AB005243 5.0e-11 Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MRN17, complete sequence'		

Seq. No.	14537	Seq. ID	OJ990407_07.9922.C15
Gene No.	31008	Strand	-
Start	2815	End	7920
Name	OJ990407_07.9922.C15.o1.tm	Method	TBLASTX:Maize
Start	4747	End	6389
GI	none	Score	140
Exons	4747..4890, 4750..4890, 4751..4891, 4962..5051, 4964..5047, 4965..5051, 4966..5058, 4967..5053, 5773..5859, 5773..5853, 5778..5861, 6293..6385, 6294..6389, 6294..6386, 6295..6387		

Seq. No.	14538	Seq. ID	OJ990407_07.9922.C16
Gene No.	31009	Strand	-
Start	3981	End	4574
Name	OJ990407_07.9922.C16.o2.gs	Method	GENSCAN
Start	3981	End	4574
GI	none	Score	.83
Exons	3981..4128, 4564..4574		

Seq. No.	14539	Seq. ID	OJ990407_07.9922.C17
Gene No.	31010	Strand	+
Start	138	End	6896
Name	OJ990407_07.9922.C17.o1.gs	Method	GENSCAN
Start	138	End	6896

GI	none	Score	.8
Exons	138..307, 937..1621, 1644..1889, 2146..2240, 2360..2501, 2932..2997, 3089..3228, 3994..4120, 4804..4952, 5358..5493, 5845..5929, 6043..6314, 6456..6601, 6827..6896		

Seq. No.	14539	Seq. ID	OJ990407_07.9922.C17
Gene No.	31010	Strand	+
Start	138	End	6896
Name	OJ990407_07.9922.C17.o1.gp	Method	AAT/GAP
Start	1050	End	1335
GI	2312053	Score	476
Exons	1050..1335		

Seq. No.	14539	Seq. ID	OJ990407_07.9922.C17
Gene No.	31010	Strand	+
Start	138	End	6896
Name	OJ990407_07.9922.C17.o2.tm	Method	TBLASTX:Maize
Start	2152	End	2504
GI	none	Score	107
Exons	2152..2235, 2152..2235, 2153..2236, 2154..2240, 2163..2246, 2356..2496, 2357..2470, 2358..2504, 2358..2504		

Seq. No.	14539	Seq. ID	OJ990407_07.9922.C17
Gene No.	31010	Strand	+
Start	138	End	6896
Name	OJ990407_07.9922.C17.o1.tm	Method	TBLASTX:Maize
Start	2926	End	3235
GI	none	Score	61
Exons	2926..2997, 2937..3011, 2937..2999, 3069..3230, 3073..3231, 3086..3235, 3088..3231		

Seq. No.	14539	Seq. ID	OJ990407_07.9922.C17
Gene No.	31010	Strand	+
Start	138	End	6896
Name	OJ990407_07.9922.C17.o3.tm	Method	TBLASTX:Maize
Start	6016	End	6326
GI	none	Score	86
Exons	6016..6147, 6041..6163, 6042..6176, 6161..6313, 6167..6232, 6171..6326		

Seq. No.	14540	Seq. ID	OJ990407_07.9922.C18
Gene No.	31011	Strand	+
Start	1	End	8204
Name	OJ990407_07.9922.C18.o1.np	Method	AAT/NAP
Start	1	End	5144
GI	5051789	Score	213
Exons	1..29, 680..755, 1768..1858, 1947..2075, 2987..3094, 3200..3327, 5107..5144		
GI Descrip.	(AL078637) putative protein [Arabidopsis thaliana]		

Seq. No.	14540	Seq. ID	OJ990407_07.9922.C18
Gene No.	31011	Strand	+
Start	1	End	8204
Name	OJ990407_07.9922.C18.o1.gs	Method	GENSCAN
Start	459	End	7274
GI	none	Score	.61
Exons	459..755, 1939..2075, 3200..3305, 3987..4213, 4793..4917,		

5716..6050, 6121..6243, 7209..7274

Seq. No.	14540	Seq. ID	OJ990407_07.9922.C18
Gene No.	31011	Strand	+
Start	1	End	8204
Name	OJ990407_07.9922.C18.o1.tm	Method	TBLASTX:Maize
Start	716	End	3077
GI	none	Score	71
Exons	716..757, 717..758, 1760..1870, 1765..1854, 1927..2076, 1938..1997, 1963..2076, 2981..3067, 2984..3076, 3003..3077		

Seq. No.	14540	Seq. ID	OJ990407_07.9922.C18
Gene No.	31011	Strand	+
Start	1	End	8204
Name	OJ990407_07.9922.C18.o1.gp	Method	AAT/GAP
Start	1995	End	4568
GI	23385_1.R1084	Score	1310
Exons	1995..2075, 2987..3106, 3200..3305, 3987..4046, 4125..4213, 4289..4568		
GI Descrip.	'5051789/emb|CAB45082.1| 1.0e-25 (AL078637) putative protein [Arabidopsis thaliana]'		

Seq. No.	14540	Seq. ID	OJ990407_07.9922.C18
Gene No.	31011	Strand	+
Start	1	End	8204
Name	OJ990407_07.9922.C18.o2.tm	Method	TBLASTX:Maize
Start	3079	End	4608
GI	none	Score	196
Exons	3079..3108, 3197..3298, 3199..3306, 3201..3305, 3204..3314, 3976..4038, 3985..4047, 3986..4051, 3986..4063, 4309..4347, 4458..4505, 4546..4608		

Seq. No.	14540	Seq. ID	OJ990407_07.9922.C18
Gene No.	31011	Strand	+
Start	1	End	8204
Name	OJ990407_07.9922.C18.o2.np	Method	AAT/NAP
Start	6097	End	8204
GI	6630729	Score	243
Exons	6097..6243, 7611..7851, 8185..8204		
GI Descrip.	(AL132958) putative protein [Arabidopsis thaliana]		

Seq. No.	14540	Seq. ID	OJ990407_07.9922.C18
Gene No.	31011	Strand	+
Start	1	End	8204
Name	OJ990407_07.9922.C18.o1.ts	Method	TBLASTX:Soybean
Start	6124	End	7847
GI	none	Score	115
Exons	6124..6243, 7608..7847		

Seq. No.	14541	Seq. ID	OJ990407_07.9922.C19
Gene No.	31012	Strand	+
Start	1	End	1777
Name	OJ990407_07.9922.C19.o1.np	Method	AAT/NAP
Start	1	End	1777
GI	6630729	Score	298
Exons	1..28, 827..1152, 1183..1419, 1755..1777		
GI Descrip.	(AL132958) putative protein [Arabidopsis thaliana]		

Seq. No.	14541	Seq. ID	OJ990407_07.9922.C19
Gene No.	31012	Strand	+
Start	1	End	1777
Name	OJ990407_07.9922.C19.o1.tw	Method	TBLASTX:Wheat
Start	473	End	767
GI	none	Score	56
Exons	473..571, 522..584, 522..596,	653..766, 658..765, 663..767	

Seq. No.	14542	Seq. ID	OJ990407_07.9922.C20
Gene No.	31013	Strand	+
Start	1	End	1182
Name	OJ990407_07.9922.C20.o1.np	Method	AAT/NAP
Start	1	End	1182
GI	6630729	Score	561
Exons	1..786, 877..1182		
GI Descrip.	(AL132958) putative protein [Arabidopsis thaliana]		

Seq. No.	14542	Seq. ID	OJ990407_07.9922.C20
Gene No.	31013	Strand	+
Start	1	End	1182
Name	OJ990407_07.9922.C20.o1.gs	Method	GENSCAN
Start	61	End	990
GI	none	Score	.95
Exons	61..786, 877..990		

Seq. No.	14542	Seq. ID	OJ990407_07.9922.C20
Gene No.	31013	Strand	+
Start	1	End	1182
Name	OJ990407_07.9922.C20.o1.ts	Method	TBLASTX:Soybean
Start	478	End	786
GI	none	Score	67
Exons	478..597, 541..642, 625..786,	633..734	

Seq. No.	14542	Seq. ID	OJ990407_07.9922.C20
Gene No.	31013	Strand	+
Start	1	End	1182
Name	OJ990407_07.9922.C20.o1.gp	Method	AAT/GAP
Start	902	End	1182
GI	none	Score	558
Exons	902..1182		

Seq. No.	14543	Seq. ID	OJ990407_07.9922.C21
Gene No.	31014	Strand	+
Start	1	End	1487
Name	OJ990407_07.9922.C21.o1.gp	Method	AAT/GAP
Start	1	End	1142
GI	none	Score	664
Exons	1..283, 1084..1142		

Seq. No.	14543	Seq. ID	OJ990407_07.9922.C21
Gene No.	31014	Strand	+
Start	1	End	1487
Name	OJ990407_07.9922.C21.o1.np	Method	AAT/NAP
Start	1	End	1487
GI	6630729	Score	508
Exons	1..283, 1084..1373, 1441..1487		

GI Descrip. (AL132958) putative protein [Arabidopsis thaliana]

Seq. No.	14543	Seq. ID	OJ990407_07.9922.C21
Gene No.	31014	Strand	+
Start	1	End	1487
Name	OJ990407_07.9922.C21.o1.ts	Method	TBLASTX:Soybean
Start	30	End	1227
GI	none	Score	124
Exons	30..131, 38..160, 54..182, 61..183, 62..178, 67..183, 240..284, 1061..1210, 1062..1223, 1078..1227, 1082..1225		

Seq. No.	14543	Seq. ID	OJ990407_07.9922.C21
Gene No.	31014	Strand	+
Start	1	End	1487
Name	OJ990407_07.9922.C21.o1.gs	Method	GENSCAN
Start	143	End	1271
GI	none	Score	.48
Exons	143..283, 1084..1271		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31015	Strand	+
Start	1	End	6061
Name	OJ990407_07.9922.C22.o1.np	Method	AAT/NAP
Start	1	End	4152
GI	6630729	Score	1250
Exons	1..153, 256..508, 1344..1514, 1607..1699, 2147..2254, 3629..3745, 3831..3920, 4072..4152		
GI Descrip.	(AL132958) putative protein [Arabidopsis thaliana]		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31015	Strand	+
Start	1	End	6061
Name	OJ990407_07.9922.C22.o1.gs	Method	GENSCAN
Start	256	End	6061
GI	none	Score	.86
Exons	256..508, 1344..1514, 1607..1699, 2147..2254, 3629..3745, 3831..3920, 4072..4093, 5363..5465, 5848..6061		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31016	Strand	+
Start	15154	End	15293
Name	OJ990407_07.9922.C22.o3.gp	Method	AAT/GAP
Start	15154	End	15293
GI	none	Score	233
Exons	15154..15293		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31017	Strand	-
Start	5867	End	10097
Name	OJ990407_07.9922.C22.o3.np	Method	AAT/NAP
Start	5867	End	9938
GI	2062167	Score	865
Exons	5867..6057, 6326..6584, 8748..8981, 9645..9938		
GI Descrip.	(AC001645) Proline-rich protein APG isolog [Arabidopsis thaliana]		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22

Gene No.	31017	Strand	-
Start	5867	End	10097
Name	OJ990407_07.9922.C22.o2.gs	Method	GENSCAN
Start	6284	End	10031
GI	none	Score	.85
Exons	6284..6297, 6326..6584, 8748..8981, 9645..10031		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31017	Strand	-
Start	5867	End	10097
Name	OJ990407_07.9922.C22.o1.gp	Method	AAT/GAP
Start	8809	End	10097
GI	43115_1.R1084	Score	1196
Exons	8809..8981, 9645..10097		
GI Descrip.	'2062167 3.0e-43 (AC001645) Proline-rich protein APG isolog [Arabidopsis thaliana]'		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o1.ts	Method	TBLASTX:Soybean
Start	266	End	1502
GI	none	Score	303
Exons	266..508, 277..507, 287..508, 1341..1502, 1341..1499, 1346..1501		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o8.tm	Method	TBLASTX:Maize
Start	428	End	1514
GI	none	Score	120
Exons	428..508, 429..503, 1339..1485, 1341..1514, 1343..1510		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o4.tm	Method	TBLASTX:Maize
Start	3653	End	4162
GI	none	Score	166
Exons	3653..3748, 3655..3747, 3671..3748, 3812..3919, 3813..3920, 3830..3928, 3831..3929, 4020..4160, 4042..4161, 4059..4160, 4066..4161, 4070..4162		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o4.ts	Method	TBLASTX:Soybean
Start	5861	End	6386
GI	none	Score	115
Exons	5861..6058, 5931..6059, 6318..6386		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o3.tc	Method	TBLASTX:Cress
Start	5909	End	6609
GI	none	Score	65

Exons	5909..6010, 5931..6011, 5999..6058, 6009..6059, 6324..6479, 6325..6477, 6501..6602, 6508..6609		
Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o7.tm	Method	TBLASTX:Maize
Start	5909	End	6479
GI	none	Score	194
Exons	5909..6058, 5928..6062, 5939..6076, 6318..6479, 6325..6477		
Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o5.ts	Method	TBLASTX:Soybean
Start	6387	End	8978
GI	none	Score	78
Exons	6387..6479, 6501..6590, 6502..6591, 8748..8978, 8794..8871		
Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o6.tm	Method	TBLASTX:Maize
Start	6529	End	9710
GI	none	Score	78
Exons	6529..6591, 6531..6590, 8733..8987, 8749..8889, 8811..8915, 8938..8982, 9646..9708, 9651..9710		
Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o2.tc	Method	TBLASTX:Cress
Start	8820	End	9947
GI	none	Score	67
Exons	8820..8879, 9649..9711, 9654..9728, 9717..9824, 9730..9825, 9846..9947, 9847..9939		
Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o2.ts	Method	TBLASTX:Soybean
Start	9654	End	9947
GI	none	Score	58
Exons	9654..9728, 9655..9711, 9712..9828, 9717..9827, 9846..9947, 9847..9936		
Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o3.tm	Method	TBLASTX:Maize
Start	9711	End	9947
GI	none	Score	109
Exons	9711..9830, 9730..9831, 9834..9878, 9834..9947, 9835..9939		
Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808

Name	OJ990407_07.9922.C22.o4.np	Method	AAT/NAP
Start	10142	End	22623
GI	4539458	Score	643
Exons	10142..10194, 10447..10556, 11494..11659, 13291..13386, 13561..13656, 13742..13847, 13977..14252, 15166..15344, 15587..15704, 16212..16283, 17231..17453, 18002..18119, 19196..19392, 20203..20375, 20497..20621, 20724..20891, 21224..21356, 21442..21545, 21606..21741, 21930..22124, 22455..22623		
GI Descrip.	(AL049500) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o3.gs	Method	GENSCAN
Start	10690	End	22808
GI	none	Score	.9
Exons	10690..10790, 11375..11512, 11593..11641, 13291..13386, 13561..13656, 13742..13819, 14192..14298, 14377..14487, 14680..14761, 15166..15344, 16030..16072, 16212..16283, 16670..16762, 16987..17145, 17231..17416, 18198..18269, 18549..18623, 19196..19413, 20296..20401, 20511..20621, 20724..20891, 21188..21341, 21442..21508, 21671..22013, 22310..22374, 22455..22630, 22667..22808		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o2.gp	Method	AAT/GAP
Start	11116	End	11604
GI	3766804	Score	916
Exons	11116..11604		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o5.tm	Method	TBLASTX:Maize
Start	11472	End	17272
GI	none	Score	176
Exons	11472..11603, 11472..11642, 11473..11643, 11474..11644, 13232..13390, 13291..13413, 13291..13386, 13292..13387, 13555..13656, 13556..13663, 13557..13658, 13559..13666, 13718..13816, 13741..13821, 13741..13815, 13742..13819, 14189..14305, 14192..14299, 14366..14440, 14379..14477, 14380..14484, 14381..14476, 14386..14484, 14632..14655, 14675..14761, 14678..14764, 14680..14766, 15157..15345, 15167..15346, 15188..15346, 15618..15707, 15618..15707, 15622..15717, 16212..16304, 16212..16286, 16662..16763, 16667..16777, 16669..16773, 16984..17139, 16984..17145, 16994..17143, 17006..17146, 17210..17272, 17231..17272		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o6.ts	Method	TBLASTX:Soybean
Start	13303	End	14257
GI	none	Score	112

Exons	13303..13386, 13310..13390, 13543..13656, 13571..13666, 13708..13815, 13742..13816, 13742..13816, 14195..14257		
Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o5.np	Method	AAT/NAP
Start	17396	End	21548
GI	4580471	Score	277
Exons	17396..17426, 19995..20096, 20192..20401, 20526..20621, 20724..20891, 21188..21548		
GI Descrip.	(AC006081) unknown protein [Arabidopsis thaliana]		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o4.gp	Method	AAT/GAP
Start	18952	End	20030
GI	3766803	Score	495
Exons	18952..18979, 19195..19426, 19995..20030		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o6.np	Method	AAT/NAP
Start	19196	End	22623
GI	4539458	Score	310
Exons	19196..19392, 20203..20375, 20497..20621, 20724..20891, 21224..21356, 21442..21545, 21606..21741, 21930..22124, 22455..22623		
GI Descrip.	(AL049500) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o1.tm	Method	TBLASTX:Maize
Start	19200	End	20562
GI	none	Score	329
Exons	19200..19430, 19201..19431, 19202..19429, 19206..19433, 19988..20065, 19995..20099, 19995..20099, 20190..20402, 20192..20401, 20505..20561, 20506..20562		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o1.tc	Method	TBLASTX:Cress
Start	20213	End	20892
GI	none	Score	167
Exons	20213..20401, 20217..20402, 20500..20670, 20505..20621, 20671..20892, 20712..20891		

Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o2.tm	Method	TBLASTX:Maize
Start	20562	End	20883
GI	none	Score	110

Exons	20562..20621, 20563..20670, 20712..20882, 20724..20882, 20725..20883		
Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o9.tm	Method	TBLASTX:Maize
Start	21471	End	21884
GI	none	Score	227
Exons	21471..21509, 21657..21884, 21657..21857, 21668..21883		
Seq. No.	14544	Seq. ID	OJ990407_07.9922.C22
Gene No.	31018	Strand	-
Start	10142	End	22808
Name	OJ990407_07.9922.C22.o3.ts	Method	TBLASTX:Soybean
Start	22444	End	22638
GI	none	Score	104
Exons	22444..22638, 22464..22556, 22465..22629		
Seq. No.	14545	Seq. ID	OJ990407_07.9922.C23
Gene No.	31019	Strand	+
Start	348	End	3291
Name	OJ990407_07.9922.C23.o1.gs	Method	GENSCAN
Start	348	End	3291
GI	none	Score	.63
Exons	348..478, 930..1131, 1152..1259, 1269..1441, 1585..1702, 1968..2099, 2413..2625, 2828..2930, 3123..3291		
Seq. No.	14545	Seq. ID	OJ990407_07.9922.C23
Gene No.	31019	Strand	+
Start	348	End	3291
Name	OJ990407_07.9922.C23.o2.np	Method	AAT/NAP
Start	959	End	2267
GI	5777617	Score	86
Exons	959..1006, 2169..2267		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		
Seq. No.	14545	Seq. ID	OJ990407_07.9922.C23
Gene No.	31020	Strand	-
Start	1001	End	3062
Name	OJ990407_07.9922.C23.o1.tc	Method	TBLASTX:Cress
Start	1000	End	1737
GI	none	Score	40
Exons	1000..1029, 1007..1030, 1039..1077, 1092..1262, 1099..1395, 1101..1337, 1332..1400, 1505..1534, 1672..1737		
Seq. No.	14545	Seq. ID	OJ990407_07.9922.C23
Gene No.	31020	Strand	-
Start	1001	End	3062
Name	OJ990407_07.9922.C23.o1.np	Method	AAT/NAP
Start	1001	End	3062
GI	544018	Score	434
Exons	1001..1562, 1672..1736, 3041..3062		
GI Descrip.	NITRATE/CHLORATE TRANSPORTER gi|1076359|pir||A45772 nitrate-inducible nitrate transporter - Arabidopsis thaliana gi|166668 (L10357) CHL1 [Arabidopsis thaliana] gi|3157921 (AC002131) Identical to nitrate/chlorate transporter cDNA		

gb|L10357 from A. thaliana. ESTs gb|H37533 and gb|R29790, gb|T46117, gb|T46068, gb|T75688, gb|R29817, gb|R29862, gb|Z34634 and gb|Z34258

Seq. No.	14545	Seq. ID	OJ990407_07.9922.C23
Gene No.	31020	Strand	-
Start	1001	End	3062
Name	OJ990407_07.9922.C23.o1.tm	Method	TBLASTX:Maize
Start	1078	End	1340
GI	none	Score	166
Exons	1078..1287, 1084..1323, 1095..1340		

Seq. No.	14545	Seq. ID	OJ990407_07.9922.C23
Gene No.	31020	Strand	-
Start	1001	End	3062
Name	OJ990407_07.9922.C23.o1.ts	Method	TBLASTX:Soybean
Start	1122	End	1340
GI	none	Score	242
Exons	1122..1340		

Seq. No.	14546	Seq. ID	OJ990407_07.9922.C24
Gene No.	31021	Strand	+
Start	550	End	620
Name	OJ990407_07.9922.C24.o1.gs	Method	GENSCAN
Start	550	End	620
GI	none	Score	.89
Exons	550..620		

Seq. No.	14546	Seq. ID	OJ990407_07.9922.C24
Gene No.	31022	Strand	+
Start	2663	End	6915
Name	OJ990407_07.9922.C24.o2.np	Method	AAT/NAP
Start	2663	End	6032
GI	6721516	Score	582
Exons	2663..2729, 4355..4597, 5008..5361, 5872..6032		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14546	Seq. ID	OJ990407_07.9922.C24
Gene No.	31022	Strand	+
Start	2663	End	6915
Name	OJ990407_07.9922.C24.o3.gs	Method	GENSCAN
Start	5920	End	6915
GI	none	Score	.84
Exons	5920..6305, 6822..6915		

Seq. No.	14546	Seq. ID	OJ990407_07.9922.C24
Gene No.	31023	Strand	+
Start	7917	End	8792
Name	OJ990407_07.9922.C24.o4.gs	Method	GENSCAN
Start	7917	End	8792
GI	none	Score	1
Exons	7917..8792		

Seq. No.	14546	Seq. ID	OJ990407_07.9922.C24
Gene No.	31024	Strand	+
Start	11862	End	12644
Name	OJ990407_07.9922.C24.o5.gs	Method	GENSCAN

Start	11862	End	12644
GI	none	Score	.98
Exons	11862..12644		

Seq. No.	14546	Seq. ID	OJ990407_07.9922.C24
Gene No.	31025	Strand	-
Start	128	End	265
Name	OJ990407_07.9922.C24.o1.np	Method	AAT/NAP
Start	128	End	265
GI	5777617	Score	81
Exons	128..265		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	14546	Seq. ID	OJ990407_07.9922.C24
Gene No.	31026	Strand	-
Start	1580	End	5196
Name	OJ990407_07.9922.C24.o2.gs	Method	GENSCAN
Start	1580	End	5196
GI	none	Score	.61
Exons	1580..1888, 1904..2014, 2054..2398, 2814..2903, 4555..4674, 5149..5196		

Seq. No.	14547	Seq. ID	OJ990407_07.9922.C25
Gene No.	31027	Strand	+
Start	1	End	3362
Name	OJ990407_07.9922.C25.o1.np	Method	AAT/NAP
Start	1	End	3362
GI	5441880	Score	684
Exons	1..842, 3314..3362		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14547	Seq. ID	OJ990407_07.9922.C25
Gene No.	31027	Strand	+
Start	1	End	3362
Name	OJ990407_07.9922.C25.o3.np	Method	AAT/NAP
Start	1142	End	3362
GI	5295955	Score	193
Exons	1142..1293, 2447..2622, 3102..3221, 3274..3362		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	14547	Seq. ID	OJ990407_07.9922.C25
Gene No.	31028	Strand	-
Start	1	End	1488
Name	OJ990407_07.9922.C25.o2.np	Method	AAT/NAP
Start	1	End	1488
GI	5042447	Score	684
Exons	1..69, 894..1488		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	14547	Seq. ID	OJ990407_07.9922.C25
Gene No.	31028	Strand	-
Start	1	End	1488
Name	OJ990407_07.9922.C25.o1.tm	Method	TBLASTX:Maize
Start	403	End	865

GI	none	Score	135
Exons	403..525, 404..556, 556..861, 557..865		

Seq. No.	14547	Seq. ID	OJ990407_07.9922.C25
Gene No.	31028	Strand	-
Start	1	End	1488
Name	OJ990407_07.9922.C25.o2.tw	Method	TBLASTX:Wheat
Start	694	End	871
GI	none	Score	196
Exons	694..843, 695..871, 695..844		

Seq. No.	14547	Seq. ID	OJ990407_07.9922.C25
Gene No.	31028	Strand	-
Start	1	End	1488
Name	OJ990407_07.9922.C25.o1.tw	Method	TBLASTX:Wheat
Start	910	End	1219
GI	none	Score	64
Exons	910..1215, 911..1090, 1115..1219		

Seq. No.	14548	Seq. ID	OJ990407_07.9922.C26
Gene No.	31029	Strand	+
Start	1	End	2783
Name	OJ990407_07.9922.C26.o1.np	Method	AAT/NAP
Start	1	End	2783
GI	6466937	Score	1083
Exons	1..27, 473..2783		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14548	Seq. ID	OJ990407_07.9922.C26
Gene No.	31029	Strand	+
Start	1	End	2783
Name	OJ990407_07.9922.C26.o3.tm	Method	TBLASTX:Maize
Start	1286	End	1615
GI	none	Score	240
Exons	1286..1615, 1420..1563		

Seq. No.	14548	Seq. ID	OJ990407_07.9922.C26
Gene No.	31029	Strand	+
Start	1	End	2783
Name	OJ990407_07.9922.C26.o2.tm	Method	TBLASTX:Maize
Start	1664	End	2194
GI	none	Score	434
Exons	1664..2194, 1774..2184, 1886..2188		

Seq. No.	14548	Seq. ID	OJ990407_07.9922.C26
Gene No.	31029	Strand	+
Start	1	End	2783
Name	OJ990407_07.9922.C26.o1.tw	Method	TBLASTX:Wheat
Start	1829	End	2311
GI	none	Score	306
Exons	1829..2311, 1837..2190, 1958..2278		

Seq. No.	14548	Seq. ID	OJ990407_07.9922.C26
Gene No.	31029	Strand	+
Start	1	End	2783
Name	OJ990407_07.9922.C26.o2.ts	Method	TBLASTX:Soybean

Start	1868	End	2070
GI	none	Score	196
Exons	1868..2059, 1891..2070, 1939..2067		

Seq. No.	14548	Seq. ID	OJ990407_07.9922.C26
Gene No.	31029	Strand	+
Start	1	End	2783
Name	OJ990407_07.9922.C26.o1.tm	Method	TBLASTX:Maize
Start	2197	End	2698
GI	none	Score	179
Exons	2197..2334, 2198..2380, 2201..2356, 2360..2698, 2363..2677, 2407..2697		

Seq. No.	14548	Seq. ID	OJ990407_07.9922.C26
Gene No.	31029	Strand	+
Start	1	End	2783
Name	OJ990407_07.9922.C26.o1.ts	Method	TBLASTX:Soybean
Start	2284	End	2646
GI	none	Score	302
Exons	2284..2646, 2288..2635		

Seq. No.	14548	Seq. ID	OJ990407_07.9922.C26
Gene No.	31029	Strand	+
Start	1	End	2783
Name	OJ990407_07.9922.C26.o2.tw	Method	TBLASTX:Wheat
Start	2363	End	2728
GI	none	Score	298
Exons	2363..2728, 2392..2727		

Seq. No.	14549	Seq. ID	OJ990407_07.9922.C27
Gene No.	31030	Strand	+
Start	1	End	1453
Name	OJ990407_07.9922.C27.o1.np	Method	AAT/NAP
Start	1	End	1453
GI	6466937	Score	918
Exons	1..1453		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14549	Seq. ID	OJ990407_07.9922.C27
Gene No.	31030	Strand	+
Start	1	End	1453
Name	OJ990407_07.9922.C27.o2.tw	Method	TBLASTX:Wheat
Start	2	End	256
GI	none	Score	303
Exons	2..256, 7..255		

Seq. No.	14549	Seq. ID	OJ990407_07.9922.C27
Gene No.	31030	Strand	+
Start	1	End	1453
Name	OJ990407_07.9922.C27.o1.gs	Method	GENSCAN
Start	39	End	1222
GI	none	Score	.88
Exons	39..109, 133..922, 1001..1222		

Seq. No.	14549	Seq. ID	OJ990407_07.9922.C27
Gene No.	31030	Strand	+

Start	1	End	1453
Name	OJ990407_07.9922.C27.o1.tm	Method	TBLASTX:Maize
Start	89	End	724
GI	none	Score	736
Exons	89..724, 190..723, 215..724		

Seq. No.	14549	Seq. ID	OJ990407_07.9922.C27
Gene No.	31030	Strand	+
Start	1	End	1453
Name	OJ990407_07.9922.C27.o1.ts	Method	TBLASTX:Soybean
Start	125	End	496
GI	none	Score	332
Exons	125..496, 154..405		

Seq. No.	14549	Seq. ID	OJ990407_07.9922.C27
Gene No.	31030	Strand	+
Start	1	End	1453
Name	OJ990407_07.9922.C27.o3.tw	Method	TBLASTX:Wheat
Start	344	End	736
GI	none	Score	277
Exons	344..736, 439..723		

Seq. No.	14549	Seq. ID	OJ990407_07.9922.C27
Gene No.	31030	Strand	+
Start	1	End	1453
Name	OJ990407_07.9922.C27.o2.tm	Method	TBLASTX:Maize
Start	728	End	1447
GI	none	Score	360
Exons	728..1096, 829..1086, 1130..1348, 1177..1374, 1376..1447, 1390..1446		

Seq. No.	14549	Seq. ID	OJ990407_07.9922.C27
Gene No.	31030	Strand	+
Start	1	End	1453
Name	OJ990407_07.9922.C27.o1.tw	Method	TBLASTX:Wheat
Start	794	End	1117
GI	none	Score	325
Exons	794..1117, 808..1104		

Seq. No.	14550	Seq. ID	OJ990407_07.9922.C29
Gene No.	31031	Strand	-
Start	59	End	604
Name	OJ990407_07.9922.C29.o1.gs	Method	GENSCAN
Start	59	End	604
GI	none	Score	.91
Exons	59..604		

Seq. No.	14551	Seq. ID	OJ990407_07.9922.C30
Gene No.	31032	Strand	-
Start	1	End	359
Name	OJ990407_07.9922.C30.o1.np	Method	AAT/NAP
Start	1	End	359
GI	6721516	Score	271
Exons	1..359		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14552	Seq. ID	OJ990407_07.9922.C32

Gene No.	31033	Strand	+
Start	71	End	84
Name	OJ990407_07.9922.C32.o1.gs	Method	GENSCAN
Start	71	End	84
GI	none	Score	.96
Exons	71..84		

Seq. No.	14553	Seq. ID	OJ990427_07.9922.C2
Gene No.	31034	Strand	-
Start	1	End	387
Name	OJ990427_07.9922.C2.o1.np	Method	AAT/NAP
Start	1	End	387
GI	4741196	Score	63
Exons	1..230, 356..387		
GI Descrip.	(AL049746) ABC-type transport-like protein [Arabidopsis thaliana]		

Seq. No.	14554	Seq. ID	OJ990427_07.9922.C3
Gene No.	31035	Strand	-
Start	1	End	946
Name	OJ990427_07.9922.C3.o1.np	Method	AAT/NAP
Start	1	End	946
GI	5777618	Score	91
Exons	1..73, 308..521, 899..946		
GI Descrip.	(AJ245900) CAA30376.1 protein [Oryza sativa]		

Seq. No.	14554	Seq. ID	OJ990427_07.9922.C3
Gene No.	31035	Strand	-
Start	1	End	946
Name	OJ990427_07.9922.C3.o1.gs	Method	GENSCAN
Start	276	End	581
GI	none	Score	.48
Exons	276..581		

Seq. No.	14554	Seq. ID	OJ990427_07.9922.C3
Gene No.	31035	Strand	-
Start	1	End	946
Name	OJ990427_07.9922.C3.o1.gp	Method	AAT/GAP
Start	338	End	570
GI	uC-osflcyp035g09b1	Score	383
Exons	338..570		
GI Descrip.	'5777618/emb|CAB53479.1| 3.0e-09 (AJ245900) CAA30376.1 protein [Oryza sativa]'		

Seq. No.	14555	Seq. ID	OJ990427_07.9922.C4
Gene No.	31036	Strand	-
Start	1	End	683
Name	OJ990427_07.9922.C4.o1.np	Method	AAT/NAP
Start	1	End	683
GI	5295971	Score	709
Exons	1..683		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	14555	Seq. ID	OJ990427_07.9922.C4
Gene No.	31036	Strand	-

Start	1	End	683
Name	OJ990427_07.9922.C4.o1.ts	Method	TBLASTX:Soybean
Start	76	End	554
GI	none	Score	158
Exons	76..180, 243..554, 259..549, 288..554		

Seq. No.	14555	Seq. ID	OJ990427_07.9922.C4
Gene No.	31036	Strand	-
Start	1	End	683
Name	OJ990427_07.9922.C4.o1.tc	Method	TBLASTX:Cress
Start	97	End	518
GI	none	Score	64
Exons	97..180, 183..518, 253..402		

Seq. No.	14555	Seq. ID	OJ990427_07.9922.C4
Gene No.	31036	Strand	-
Start	1	End	683
Name	OJ990427_07.9922.C4.o1.gs	Method	GENSCAN
Start	120	End	674
GI	none	Score	.98
Exons	120..674		

Seq. No.	14555	Seq. ID	OJ990427_07.9922.C4
Gene No.	31036	Strand	-
Start	1	End	683
Name	OJ990427_07.9922.C4.o1.tw	Method	TBLASTX:Wheat
Start	228	End	683
GI	none	Score	62
Exons	228..317, 241..321, 324..683, 430..540		

Seq. No.	14555	Seq. ID	OJ990427_07.9922.C4
Gene No.	31036	Strand	-
Start	1	End	683
Name	OJ990427_07.9922.C4.o1.tm	Method	TBLASTX:Maize
Start	234	End	569
GI	none	Score	272
Exons	234..569, 235..552, 237..569		

Seq. No.	14556	Seq. ID	OJ990427_07.9922.C5
Gene No.	31037	Strand	-
Start	227	End	460
Name	OJ990427_07.9922.C5.o1.gp	Method	AAT/GAP
Start	227	End	460
GI	286708	Score	427
Exons	227..460		

Seq. No.	14557	Seq. ID	OJ990427_07.9922.C7
Gene No.	31038	Strand	+
Start	1	End	775
Name	OJ990427_07.9922.C7.o1.np	Method	AAT/NAP
Start	1	End	775
GI	1362060	Score	142
Exons	1..44, 581..775		
GI Descrip.	dehydroquinase-shikimate dehydrogenase - garden pea		

Seq. No.	14557	Seq. ID	OJ990427_07.9922.C7
Gene No.	31038	Strand	+

Start	1	End	775
Name	OJ990427_07.9922.C7.o1.tw	Method	TBLASTX:Wheat
Start	550	End	718
GI	none	Score	75
Exons	550..717, 579..665, 581..718		

Seq. No.	14557	Seq. ID	OJ990427_07.9922.C7
Gene No.	31038	Strand	+
Start	1	End	775
Name	OJ990427_07.9922.C7.o1.tm	Method	TBLASTX:Maize
Start	573	End	718
GI	none	Score	63
Exons	573..713, 579..665, 580..717, 581..718		

Seq. No.	14557	Seq. ID	OJ990427_07.9922.C7
Gene No.	31038	Strand	+
Start	1	End	775
Name	OJ990427_07.9922.C7.o1.gp	Method	AAT/GAP
Start	597	End	718
GI	15195_1.R1084	Score	190
Exons	597..718		
GI Descrip.	'4127688/emb|CAA06837.1| 2.0e-16 (AJ006065) isochorismate synthase [Catharanthus roseus]'		

Seq. No.	14558	Seq. ID	OJ990427_07.9922.C8
Gene No.	31039	Strand	+
Start	236	End	363
Name	OJ990427_07.9922.C8.o1.gs	Method	GENSCAN
Start	236	End	363
GI	none	Score	.56
Exons	236..363		

Seq. No.	14558	Seq. ID	OJ990427_07.9922.C8
Gene No.	31040	Strand	-
Start	313	End	420
Name	OJ990427_07.9922.C8.o1.np	Method	AAT/NAP
Start	313	End	420
GI	5922634	Score	77
Exons	313..420		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016867|dbj|BAA85210.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	14559	Seq. ID	OJ990427_07.9922.C9
Gene No.	31041	Strand	+
Start	1376	End	1503
Name	OJ990427_07.9922.C9.o1.gs	Method	GENSCAN
Start	1376	End	1503
GI	none	Score	.45
Exons	1376..1503		

Seq. No.	14559	Seq. ID	OJ990427_07.9922.C9
Gene No.	31042	Strand	-
Start	1	End	1560
Name	OJ990427_07.9922.C9.o1.np	Method	AAT/NAP
Start	1	End	1560
GI	5922634	Score	77

Exons	1..43, 634..656, 1446..1560		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016867|dbj|BAA85210.1| (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	14560	Seq. ID	OJ990427_07.9922.C10
Gene No.	31043	Strand	-
Start	149	End	251
Name	OJ990427_07.9922.C10.o1.gp	Method	AAT/GAP
Start	149	End	251
GI	LIB3432-008-P1-K1-F11	Score	126
Exons	149..251		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-151 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		
Seq. No.	14561	Seq. ID	OJ990427_07.9922.C13
Gene No.	31044	Strand	+
Start	100	End	263
Name	OJ990427_07.9922.C13.o1.gs	Method	GENSCAN
Start	100	End	263
GI	none	Score	.78
Exons	100..263		
Seq. No.	14562	Seq. ID	OJ990427_07.9922.C14
Gene No.	31045	Strand	+
Start	1	End	627
Name	OJ990427_07.9922.C14.o1.np	Method	AAT/NAP
Start	1	End	529
GI	4127688	Score	207
Exons	1..37, 174..271, 398..529		
GI Descrip.	(AJ006065) isochorismate synthase [Catharanthus roseus]		
Seq. No.	14562	Seq. ID	OJ990427_07.9922.C14
Gene No.	31045	Strand	+
Start	1	End	627
Name	OJ990427_07.9922.C14.o1.tm	Method	TBLASTX:Maize
Start	1	End	627
GI	none	Score	62
Exons	1..42, 2..40, 3..77, 165..248, 166..264, 170..271, 172..270, 396..488, 397..489, 398..490, 563..625, 571..624, 573..626, 574..627		
Seq. No.	14562	Seq. ID	OJ990427_07.9922.C14
Gene No.	31045	Strand	+
Start	1	End	627
Name	OJ990427_07.9922.C14.o1.gs	Method	GENSCAN
Start	174	End	490
GI	none	Score	.77
Exons	174..230, 398..490		
Seq. No.	14562	Seq. ID	OJ990427_07.9922.C14
Gene No.	31045	Strand	+
Start	1	End	627
Name	OJ990427_07.9922.C14.o1.gp	Method	AAT/GAP
Start	196	End	626
GI	701722	Score	560
Exons	196..271, 398..626		

GI Descrip.	4127688/emb|CAA06837.1| 2.0e-16 (AJ006065) isochorismate synthase [Catharanthus roseus]		
Seq. No.	14563	Seq. ID	OJ990427_07.9922.C15
Gene No.	31046	Strand	+
Start	438	End	543
Name	OJ990427_07.9922.C15.o1.gs	Method	GENSCAN
Start	438	End	543
GI	none	Score	.83
Exons	438..543		
Seq. No.	14564	Seq. ID	OJ990427_07.9922.C16
Gene No.	31047	Strand	-
Start	1	End	688
Name	OJ990427_07.9922.C16.o1.gp	Method	AAT/GAP
Start	1	End	688
GI	15195_1.R1084	Score	749
Exons	1..186, 281..344, 442..688		
GI Descrip.	'4127688/emb|CAA06837.1| 2.0e-16 (AJ006065) isochorismate synthase [Catharanthus roseus]'		
Seq. No.	14564	Seq. ID	OJ990427_07.9922.C16
Gene No.	31047	Strand	-
Start	1	End	688
Name	OJ990427_07.9922.C16.o1.np	Method	AAT/NAP
Start	1	End	688
GI	629688	Score	390
Exons	1..186, 281..344, 442..688		
GI Descrip.	dehydroquinase shikimate dehydrogenase - Common tobacco gi|535771 (L32794) dehydroquinate dehydratase/shikimate dehydrogenase [Nicotiana tabacum]		
Seq. No.	14564	Seq. ID	OJ990427_07.9922.C16
Gene No.	31047	Strand	-
Start	1	End	688
Name	OJ990427_07.9922.C16.o1.gs	Method	GENSCAN
Start	25	End	570
GI	none	Score	.87
Exons	25..246, 281..344, 442..570		
Seq. No.	14564	Seq. ID	OJ990427_07.9922.C16
Gene No.	31047	Strand	-
Start	1	End	688
Name	OJ990427_07.9922.C16.o2.tm	Method	TBLASTX:Maize
Start	77	End	367
GI	none	Score	55
Exons	77..157, 78..161, 79..189, 80..184, 275..367		
Seq. No.	14564	Seq. ID	OJ990427_07.9922.C16
Gene No.	31047	Strand	-
Start	1	End	688
Name	OJ990427_07.9922.C16.o1.ts	Method	TBLASTX:Soybean
Start	79	End	685
GI	none	Score	66
Exons	79..159, 80..148, 151..189, 275..367, 276..347, 292..360, 429..587, 432..581, 433..588, 530..685, 562..681		

Seq. No.	14564	Seq. ID	OJ990427_07.9922.C16
Gene No.	31047	Strand	-
Start	1	End	688
Name	OJ990427_07.9922.C16.o1.tc	Method	TBLASTX:Cress
Start	82	End	687
GI	none	Score	68
Exons	82..159, 89..172, 89..169, 154..189, 275..367, 276..347, 432..581, 433..576, 562..687, 581..685		

Seq. No.	14564	Seq. ID	OJ990427_07.9922.C16
Gene No.	31047	Strand	-
Start	1	End	688
Name	OJ990427_07.9922.C16.o1.tm	Method	TBLASTX:Maize
Start	470	End	688
GI	none	Score	152
Exons	470..577, 471..578, 471..581, 472..579, 542..688, 562..687		

Seq. No.	14564	Seq. ID	OJ990427_07.9922.C16
Gene No.	31047	Strand	-
Start	1	End	688
Name	OJ990427_07.9922.C16.o1.tw	Method	TBLASTX:Wheat
Start	490	End	688
GI	none	Score	122
Exons	490..588, 492..587, 542..688, 562..687		

Seq. No.	14565	Seq. ID	OJ990427_07.9922.C17
Gene No.	31048	Strand	-
Start	129	End	5323
Name	OJ990427_07.9922.C17.o1.gp	Method	AAT/GAP
Start	129	End	983
GI	4716065	Score	657
Exons	129..405, 909..983		

Seq. No.	14565	Seq. ID	OJ990427_07.9922.C17
Gene No.	31048	Strand	-
Start	129	End	5323
Name	OJ990427_07.9922.C17.o1.gs	Method	GENSCAN
Start	177	End	5323
GI	none	Score	.92
Exons	177..195, 315..405, 909..1071, 1159..1307, 2124..2264, 2345..2510, 2545..2608, 2706..3061, 3749..3967, 4318..4423, 4717..5008, 5194..5323		

Seq. No.	14565	Seq. ID	OJ990427_07.9922.C17
Gene No.	31048	Strand	-
Start	129	End	5323
Name	OJ990427_07.9922.C17.o2.tm	Method	TBLASTX:Maize
Start	771	End	2631
GI	none	Score	41
Exons	771..812, 785..811, 908..1024, 916..1068, 917..1057, 922..1080, 1159..1305, 1169..1288, 2125..2250, 2129..2251, 2134..2250, 2341..2421, 2343..2453, 2344..2448, 2539..2631		

Seq. No.	14565	Seq. ID	OJ990427_07.9922.C17
Gene No.	31048	Strand	-
Start	129	End	5323
Name	OJ990427_07.9922.C17.o2.tc	Method	TBLASTX:Cress

Start	841	End	2235
GI	none	Score	128
Exons	841..1056, 911..1063, 1157..1309, 1159..1305, 2128..2235, 2141..2209		

Seq. No.	14565	Seq. ID	OJ990427_07.9922.C17
Gene No.	31048	Strand	-
Start	129	End	5323
Name	OJ990427_07.9922.C17.o1.np	Method	AAT/NAP
Start	871	End	4935
GI	6437552	Score	1378
Exons	871..1071, 1159..1307, 2124..2243, 2315..2450, 2545..2608, 2706..3052, 3749..3967, 4318..4423, 4717..4935		
GI Descrip.	(AC011623) putative dehydroquinase shikimate dehydrogenase [Arabidopsis thaliana]		

Seq. No.	14565	Seq. ID	OJ990427_07.9922.C17
Gene No.	31048	Strand	-
Start	129	End	5323
Name	OJ990427_07.9922.C17.o1.ts	Method	TBLASTX:Soybean
Start	910	End	4425
GI	none	Score	133
Exons	910..1068, 911..1072, 1159..1302, 1160..1279, 1168..1296, 1191..1304, 2129..2242, 2131..2235, 2207..2248, 2343..2423, 2344..2412, 2415..2453, 2539..2631, 2540..2611, 2556..2624, 2693..2902, 2696..3055, 2697..3053, 3746..3970, 3747..4040, 4315..4425		

Seq. No.	14565	Seq. ID	OJ990427_07.9922.C17
Gene No.	31048	Strand	-
Start	129	End	5323
Name	OJ990427_07.9922.C17.o2.gp	Method	AAT/GAP
Start	2138	End	3045
GI	15195_1.R1084	Score	1190
Exons	2138..2264, 2345..2450, 2545..2608, 2706..3045		
GI Descrip.	'4127688/emb|CAA06837.1| 2.0e-16 (AJ006065) isochorismate synthase [Catharanthus roseus]'		

Seq. No.	14565	Seq. ID	OJ990427_07.9922.C17
Gene No.	31048	Strand	-
Start	129	End	5323
Name	OJ990427_07.9922.C17.o1.tc	Method	TBLASTX:Cress
Start	2346	End	2971
GI	none	Score	68
Exons	2346..2423, 2353..2436, 2353..2433, 2418..2453, 2539..2631, 2540..2611, 2693..2917, 2696..2971, 2697..2969		

Seq. No.	14565	Seq. ID	OJ990427_07.9922.C17
Gene No.	31048	Strand	-
Start	129	End	5323
Name	OJ990427_07.9922.C17.o1.tm	Method	TBLASTX:Maize
Start	2734	End	4437
GI	none	Score	455
Exons	2734..2919, 2735..3061, 2736..3062, 2977..3063, 2996..3064, 3744..3968, 3747..4028, 3749..3970, 4288..4437, 4315..4425, 4335..4433		

Seq. No.	14565	Seq. ID	OJ990427_07.9922.C17
Gene No.	31048	Strand	-
Start	129	End	5323
Name	OJ990427_07.9922.C17.o1.tw	Method	TBLASTX:Wheat
Start	2754	End	3848
GI	none	Score	462
Exons	2754..3092, 2755..2919, 2756..3061, 2977..3063, 3747..3839, 3749..3841, 3749..3844, 3750..3848		

Seq. No.	14565	Seq. ID	OJ990427_07.9922.C17
Gene No.	31048	Strand	-
Start	129	End	5323
Name	OJ990427_07.9922.C17.o3.tc	Method	TBLASTX:Cress
Start	2972	End	4436
GI	none	Score	85
Exons	2972..3055, 2973..3053, 3746..3970, 3771..3968, 4285..4416, 4315..4425, 4341..4436		

Seq. No.	14565	Seq. ID	OJ990427_07.9922.C17
Gene No.	31048	Strand	-
Start	129	End	5323
Name	OJ990427_07.9922.C17.o3.gp	Method	AAT/GAP
Start	4338	End	4838
GI	uC-osroM202028d10a1	Score	347
Exons	4338..4423, 4717..4838		
GI Descrip.	'1362060/pir||S48698 4.0e-10 dehydroquinase-shikimate dehydrogenase - garden pea'		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31049	Strand	+
Start	1234	End	4268
Name	OJ990427_07.9922.C18.o1.gs	Method	GENSCAN
Start	1234	End	1775
GI	none	Score	.56
Exons	1234..1369, 1636..1775		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31049	Strand	+
Start	1234	End	4268
Name	OJ990427_07.9922.C18.o1.np	Method	AAT/NAP
Start	1265	End	4268
GI	6721519	Score	243
Exons	1265..1310, 1348..1413, 1636..1822, 4235..4268		
GI Descrip.	(AP001072) EST AU082116(E4026) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31049	Strand	+
Start	1234	End	4268
Name	OJ990427_07.9922.C18.o1.gp	Method	AAT/GAP
Start	1685	End	1842
GI	uC-osflcyp169h02b1	Score	202
Exons	1685..1842		
GI Descrip.	'6063530/dbj|AP000615.1|AP000615 3.0e-33 Oryza sativa genomic DNA, chromosome 3, clone:P0043E01'		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18

Gene No.	31050	Strand	+
Start	12306	End	12773
Name	OJ990427_07.9922.C18.o5.gs	Method	GENSCAN
Start	12306	End	12773
GI	none	Score	.7
Exons	12306..12493, 12545..12773		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31051	Strand	+
Start	13243	End	14674
Name	OJ990427_07.9922.C18.o4.gp	Method	AAT/GAP
Start	13243	End	14674
GI	286708	Score	665
Exons	13243..13363, 14444..14674		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31052	Strand	+
Start	15870	End	16120
Name	OJ990427_07.9922.C18.o7.gs	Method	GENSCAN
Start	15870	End	16120
GI	none	Score	.76
Exons	15870..15914, 16052..16120		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31053	Strand	+
Start	18429	End	22467
Name	OJ990427_07.9922.C18.o5.np	Method	AAT/NAP
Start	18429	End	22467
GI	5777618	Score	237
Exons	18429..18818, 19214..19347, 21147..21572, 22441..22467		
GI Descrip.	(AJ245900) CAA30376.1 protein [Oryza sativa]		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31053	Strand	+
Start	18429	End	22467
Name	OJ990427_07.9922.C18.o5.gp	Method	AAT/GAP
Start	18579	End	19264
GI	3061205	Score	668
Exons	18579..18818, 19127..19264		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31054	Strand	-
Start	2053	End	7880
Name	OJ990427_07.9922.C18.o2.gs	Method	GENSCAN
Start	2053	End	4879
GI	none	Score	.59
Exons	2053..2151, 3144..3368, 4051..4228, 4806..4879		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31054	Strand	-
Start	2053	End	7880
Name	OJ990427_07.9922.C18.o2.np	Method	AAT/NAP
Start	3105	End	5403
GI	4262143	Score	320
Exons	3105..3368, 4051..4132, 5378..5403		
GI Descrip.	(AC005275) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31054	Strand	-
Start	2053	End	7880
Name	OJ990427_07.9922.C18.o2.gp	Method	AAT/GAP
Start	3205	End	4302
GI	71570_1.R1084	Score	775
Exons	3205..3368, 4051..4302		
GI Descrip.	'4262143/gb|AAD14443| 4.0e-19 (AC005275) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31054	Strand	-
Start	2053	End	7880
Name	OJ990427_07.9922.C18.o3.gs	Method	GENSCAN
Start	5283	End	7880
GI	none	Score	.99
Exons	5283..5411, 5490..5612, 7809..7880		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31054	Strand	-
Start	2053	End	7880
Name	OJ990427_07.9922.C18.o3.np	Method	AAT/NAP
Start	5286	End	7880
GI	113165	Score	459
Exons	5286..5411, 5490..5620, 6107..6227, 7809..7880		
GI Descrip.	ACYL CARRIER PROTEIN I PRECURSOR (ACP I) gi|625337|pir||AYBH acyl carrier protein I precursor - barley gi|166967 (M58753) acyl carrier protein I [Hordeum vulgare] gi|166973 (M24425) acyl carrier protein I precursor [Hordeum vulgare]		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31055	Strand	-
Start	10323	End	22467
Name	OJ990427_07.9922.C18.o1.tc	Method	TBLASTX:Cress
Start	3114	End	3389
GI	none	Score	159
Exons	3114..3389, 3118..3321, 3173..3370, 3291..3383		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31055	Strand	-
Start	10323	End	22467
Name	OJ990427_07.9922.C18.o1.tm	Method	TBLASTX:Maize
Start	3129	End	4113
GI	none	Score	232
Exons	3129..3371, 3133..3321, 3133..3375, 3134..3370, 4049..4111, 4051..4113		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31055	Strand	-
Start	10323	End	22467
Name	OJ990427_07.9922.C18.o2.tm	Method	TBLASTX:Maize
Start	5284	End	6230
GI	none	Score	155
Exons	5284..5430, 5295..5411, 5451..5612, 5458..5613, 6115..6228, 6117..6230, 6118..6228		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18

Gene No.	31055	Strand	-
Start	10323	End	22467
Name	OJ990427_07.9922.C18.o4.np	Method	AAT/NAP
Start	10323	End	22467
GI	4505323	Score	88
Exons	10323..10397, 15308..15419, 18605..18771, 22446..22467		
GI Descrip.	Wiskott-Aldrich syndrome-like gi|2116984|dbj|BAA20128| (D88460) N-WASP [Homo sapiens]		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31055	Strand	-
Start	10323	End	22467
Name	OJ990427_07.9922.C18.o3.gp	Method	AAT/GAP
Start	11154	End	12132
GI	LIB3477-003-P1-K1-E9	Score	107
Exons	11154..11190, 12068..12132		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31055	Strand	-
Start	10323	End	22467
Name	OJ990427_07.9922.C18.o6.gs	Method	GENSCAN
Start	13022	End	14134
GI	none	Score	.67
Exons	13022..13068, 13987..14134		

Seq. No.	14566	Seq. ID	OJ990427_07.9922.C18
Gene No.	31055	Strand	-
Start	10323	End	22467
Name	OJ990427_07.9922.C18.o6.gp	Method	AAT/GAP
Start	21230	End	21934
GI	none	Score	1304
Exons	21230..21934		

Seq. No.	14567	Seq. ID	OJ990427_07.9922.C19
Gene No.	31056	Strand	+
Start	3734	End	4411
Name	OJ990427_07.9922.C19.o1.np	Method	AAT/NAP
Start	3734	End	4411
GI	5922634	Score	77
Exons	3734..3833, 4306..4411		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016867|dbj|BAA85210.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	14567	Seq. ID	OJ990427_07.9922.C19
Gene No.	31057	Strand	-
Start	1404	End	3918
Name	OJ990427_07.9922.C19.o1.gs	Method	GENSCAN
Start	1404	End	3918
GI	none	Score	.52
Exons	1404..1616, 2630..2729, 2823..2847, 3145..3218, 3791..3918		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31058	Strand	+

Start	2557	End	2670
Name	OJ990427_07.9922.C20.o1.gp	Method	AAT/GAP
Start	2557	End	2670
GI	LIB3477-003-P1-K1-E9	Score	165
Exons	2557..2670		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31059	Strand	+
Start	15874	End	18331
Name	OJ990427_07.9922.C20.o4.gs	Method	GENSCAN
Start	15874	End	18331
GI	none	Score	.62
Exons	15874..15956, 16087..16241, 16937..16977, 17701..17937, 17972..18331		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31060	Strand	-
Start	652	End	7622
Name	OJ990427_07.9922.C20.o1.gs	Method	GENSCAN
Start	652	End	7622
GI	none	Score	.5
Exons	652..859, 1500..1661, 2804..2883, 4618..4653, 6106..6185, 6960..7268, 7493..7622		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o3.gs	Method	GENSCAN
Start	10865	End	15467
GI	none	Score	.65
Exons	10865..11957, 12124..12241, 12263..13287, 13462..13906, 14003..14915, 15144..15467		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o1.np	Method	AAT/NAP
Start	10868	End	15467
GI	5295971	Score	6940
Exons	10868..15467		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o2.ts	Method	TBLASTX:Soybean
Start	10892	End	11542
GI	none	Score	51
Exons	10892..11368, 11025..11111, 11208..11369, 11381..11542		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-

Start	10865	End	15467
Name	OJ990427_07.9922.C20.o1.tc	Method	TBLASTX:Cress
Start	10901	End	11563
GI	none	Score	99
Exons	10901..11152, 10935..11111, 11150..11266, 11190..11267, 11276..11563, 11277..11369, 11381..11554		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o4.tm	Method	TBLASTX:Maize
Start	10902	End	11291
GI	none	Score	405
Exons	10902..11291, 10902..11288, 10904..11290		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o3.tw	Method	TBLASTX:Wheat
Start	10931	End	11350
GI	none	Score	73
Exons	10931..11134, 10943..11125, 11147..11350, 11190..11267		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o4.tw	Method	TBLASTX:Wheat
Start	11369	End	11743
GI	none	Score	88
Exons	11369..11563, 11588..11743		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o3.tm	Method	TBLASTX:Maize
Start	11478	End	11869
GI	none	Score	365
Exons	11478..11867, 11479..11754, 11480..11869, 11480..11869		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o5.tm	Method	TBLASTX:Maize
Start	11925	End	12209
GI	none	Score	122
Exons	11925..12173, 11928..12209, 12052..12183		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o3.ts	Method	TBLASTX:Soybean
Start	11928	End	12260
GI	5509260	Score	73
Exons	11928..12260, 12004..12180		
GI Descrip.	-		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20

Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o1.ts	Method	TBLASTX:Soybean
Start	12711	End	13190
GI	none	Score	162
Exons	12711..12857, 12879..13190, 12889..13185		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o2.tc	Method	TBLASTX:Cress
Start	12735	End	13175
GI	none	Score	190
Exons	12735..12857, 12888..13175		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o2.tm	Method	TBLASTX:Maize
Start	12795	End	13221
GI	none	Score	454
Exons	12795..13190, 12795..13217, 12796..13221		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o2.tw	Method	TBLASTX:Wheat
Start	12873	End	13424
GI	none	Score	71
Exons	12873..12953, 12960..13226, 13060..13209, 13284..13424		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o1.tw	Method	TBLASTX:Wheat
Start	13497	End	13914
GI	none	Score	40
Exons	13497..13577, 13498..13572, 13557..13907, 13584..13913, 13699..13914		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o6.tm	Method	TBLASTX:Maize
Start	13617	End	13860
GI	none	Score	225
Exons	13617..13853, 13620..13859, 13621..13860		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o1.tm	Method	TBLASTX:Maize
Start	13875	End	14585
GI	none	Score	77
Exons	13875..13922, 13879..13923, 13892..14149, 13920..14147, 14140..14232, 14141..14215, 14151..14225, 14297..14329, 14299..14328, 14301..14330, 14338..14568, 14358..14585		

Seq. No.	14568	Seq. ID	OJ990427_07.9922.C20
Gene No.	31061	Strand	-
Start	10865	End	15467
Name	OJ990427_07.9922.C20.o7.tm	Method	TBLASTX:Maize
Start	14820	End	15118
GI	none	Score	100
Exons	14820..14891, 14820..14939, 14930..15118, 14931..15074		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31062	Strand	+
Start	1	End	17634
Name	OJ990427_07.9922.C21.o1.np	Method	AAT/NAP
Start	1	End	9823
GI	5777618	Score	265
Exons	1..27, 7129..7195, 7666..7799, 9365..9823		
GI Descrip.	(AJ245900) CAA30376.1 protein [Oryza sativa]		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31062	Strand	+
Start	1	End	17634
Name	OJ990427_07.9922.C21.o1.gs	Method	GENSCAN
Start	990	End	6332
GI	none	Score	.52
Exons	990..1101, 1410..1688, 3097..3575, 5307..5415, 6226..6332		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31062	Strand	+
Start	1	End	17634
Name	OJ990427_07.9922.C21.o1.gp	Method	AAT/GAP
Start	6959	End	7803
GI	uC-osflcyp035g09b1	Score	862
Exons	6959..7195, 7582..7803		
GI Descrip.	'5777618/emb|CAB53479.1| 3.0e-09 (AJ245900) CAA30376.1 protein [Oryza sativa]'		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31062	Strand	+
Start	1	End	17634
Name	OJ990427_07.9922.C21.o2.gs	Method	GENSCAN
Start	6985	End	11320
GI	none	Score	.63
Exons	6985..7195, 7582..7799, 9365..9862, 11213..11320		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31062	Strand	+
Start	1	End	17634
Name	OJ990427_07.9922.C21.o2.np	Method	AAT/NAP
Start	7665	End	17634
GI	5777618	Score	267
Exons	7665..7799, 9365..9816, 17609..17634		
GI Descrip.	(AJ245900) CAA30376.1 protein [Oryza sativa]		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31063	Strand	-
Start	10721	End	11726
Name	OJ990427_07.9922.C21.o2.gp	Method	AAT/GAP

Start	10721	End	11726
GI	none	Score	1801
Exons	10721..11726		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o9.tm	Method	TBLASTX:Maize
Start	3081	End	9817
GI	none	Score	102
Exons	3081..3191, 3095..3199, 3243..3350, 3272..3349, 3395..3496, 9371..9481, 9385..9489, 9533..9637, 9535..9636, 9683..9817		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o3.gs	Method	GENSCAN
Start	13112	End	25502
GI	none	Score	.49
Exons	13112..13176, 13267..13475, 14193..14479, 14521..14617, 20564..20772, 20952..21218, 21324..22750, 22804..22909, 22930..24161, 24306..25081, 25294..25502		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o5.tm	Method	TBLASTX:Maize
Start	13122	End	14389
GI	none	Score	77
Exons	13122..13178, 13124..13198, 13265..13456, 13265..13459, 14252..14389, 14256..14357, 14312..14389		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o5.ts	Method	TBLASTX:Soybean
Start	13124	End	13397
GI	none	Score	132
Exons	13124..13198, 13189..13209, 13264..13371, 13265..13396, 13266..13397		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o3.gp	Method	AAT/GAP
Start	13360	End	14689
GI	none	Score	1012
Exons	13360..13458, 14251..14689		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o3.np	Method	AAT/NAP
Start	20925	End	26148
GI	5295971	Score	3466
Exons	20925..25168, 26100..26148		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the		

predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o2.ts	Method	TBLASTX:Soybean
Start	20949	End	21599
GI	none	Score	72
Exons	20949..21416, 21007..21138, 21265..21408, 21435..21599		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o1.tc	Method	TBLASTX:Cress
Start	20955	End	21620
GI	none	Score	97
Exons	20955..21170, 20998..21174, 21207..21326, 21232..21327, 21324..21620, 21339..21533		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o8.tm	Method	TBLASTX:Maize
Start	20967	End	21179
GI	none	Score	100
Exons	20967..21179, 20985..21146, 21061..21171		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o4.tw	Method	TBLASTX:Wheat
Start	20988	End	21429
GI	none	Score	68
Exons	20988..21179, 20995..21174, 21204..21407, 21229..21429		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o1.tm	Method	TBLASTX:Maize
Start	21207	End	21659
GI	none	Score	272
Exons	21207..21659, 21229..21654		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o5.tw	Method	TBLASTX:Wheat
Start	21445	End	21752
GI	none	Score	103
Exons	21445..21624, 21447..21620, 21645..21752, 21667..21735		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o6.tm	Method	TBLASTX:Maize
Start	21663	End	21926

GI	none	Score	119
Exons	21663..21926, 21663..21926		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o2.tw	Method	TBLASTX:Wheat
Start	21768	End	22308
GI	none	Score	55
Exons	21768..21971, 21963..22307, 22078..22152, 22177..22308		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o1.ts	Method	TBLASTX:Soybean
Start	21975	End	22475
GI	5509260	Score	60
Exons	21975..22475, 22084..22152, 22186..22401		
GI Descrip.	-		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o2.tc	Method	TBLASTX:Cress
Start	22089	End	22364
GI	none	Score	120
Exons	22089..22364, 22177..22353		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o3.tm	Method	TBLASTX:Maize
Start	22128	End	22449
GI	none	Score	187
Exons	22128..22448, 22128..22436, 22129..22449, 22132..22449		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o3.ts	Method	TBLASTX:Soybean
Start	22814	End	23292
GI	none	Score	158
Exons	22814..22918, 22981..23292, 22997..23287, 23026..23292		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o3.tc	Method	TBLASTX:Cress
Start	22835	End	23256
GI	none	Score	64
Exons	22835..22918, 22921..23256, 22991..23140		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o1.tw	Method	TBLASTX:Wheat
Start	22966	End	23523

GI	none	Score	62
Exons	22966..23055, 22979..23059, 23062..23523, 23168..23278		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o2.tm	Method	TBLASTX:Maize
Start	22972	End	23307
GI	none	Score	272
Exons	22972..23307, 22973..23290, 22975..23307		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o4.ts	Method	TBLASTX:Soybean
Start	23332	End	23661
GI	none	Score	206
Exons	23332..23661, 23485..23565		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o3.tw	Method	TBLASTX:Wheat
Start	23605	End	24052
GI	none	Score	192
Exons	23605..23685, 23686..24051, 23768..24052		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o4.tm	Method	TBLASTX:Maize
Start	23665	End	24072
GI	none	Score	144
Exons	23665..24072, 23843..24058		

Seq. No.	14569	Seq. ID	OJ990427_07.9922.C21
Gene No.	31064	Strand	-
Start	13112	End	26148
Name	OJ990427_07.9922.C21.o7.tm	Method	TBLASTX:Maize
Start	24760	End	25048
GI	none	Score	153
Exons	24760..25047, 24761..25048		

Seq. No.	14570	Seq. ID	OJ990427_07.9922.C22
Gene No.	31065	Strand	-
Start	4188	End	4280
Name	OJ990427_07.9922.C22.o1.gp	Method	AAT/GAP
Start	4188	End	4280
GI	LIB3477-003-P1-K1-E9	Score	124
Exons	4188..4280		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	14571	Seq. ID	OJ990427_07.9922.C24
Gene No.	31066	Strand	+
Start	1	End	6352

Name	OJ990427_07.9922.C24.o1.np	Method	AAT/NAP
Start	1	End	6352
GI	5777618	Score	226
Exons	1..19, 1413..1592, 5608..6070, 6328..6352		
GI Descrip.	(AJ245900) CAA30376.1 protein [Oryza sativa]		

Seq. No.	14571	Seq. ID	OJ990427_07.9922.C24
Gene No.	31066	Strand	+
Start	1	End	6352
Name	OJ990427_07.9922.C24.o2.gs	Method	GENSCAN
Start	928	End	6108
GI	none	Score	.58
Exons	928..1072, 1432..1592, 2901..2964, 3505..3651, 5630..6108		

Seq. No.	14571	Seq. ID	OJ990427_07.9922.C24
Gene No.	31067	Strand	-
Start	260	End	595
Name	OJ990427_07.9922.C24.o1.gs	Method	GENSCAN
Start	260	End	595
GI	none	Score	.64
Exons	260..504, 537..595		

Seq. No.	14572	Seq. ID	OJ990427_07.9922.C25
Gene No.	31068	Strand	+
Start	1	End	3295
Name	OJ990427_07.9922.C25.o1.np	Method	AAT/NAP
Start	1	End	3295
GI	5777618	Score	118
Exons	1..88, 838..1257, 3103..3295		
GI Descrip.	(AJ245900) CAA30376.1 protein [Oryza sativa]		

Seq. No.	14572	Seq. ID	OJ990427_07.9922.C25
Gene No.	31068	Strand	+
Start	1	End	3295
Name	OJ990427_07.9922.C25.o1.gs	Method	GENSCAN
Start	852	End	3273
GI	none	Score	.47
Exons	852..1330, 2660..2810, 3060..3273		

Seq. No.	14573	Seq. ID	OJ990427_07.9922.C26
Gene No.	31069	Strand	+
Start	1	End	1428
Name	OJ990427_07.9922.C26.o1.gp	Method	AAT/GAP
Start	1	End	291
GI	none	Score	547
Exons	1..291		

Seq. No.	14573	Seq. ID	OJ990427_07.9922.C26
Gene No.	31069	Strand	+
Start	1	End	1428
Name	OJ990427_07.9922.C26.o1.np	Method	AAT/NAP
Start	1	End	1428
GI	6751692	Score	1094
Exons	1..1428		
GI Descrip.	(AC018908) unknown protein [Arabidopsis thaliana]		

Seq. No.	14573	Seq. ID	OJ990427_07.9922.C26

Gene No.	31069	Strand	+
Start	1	End	1428
Name	OJ990427_07.9922.C26.o1.gs	Method	GENSCAN
Start	23	End	1340
GI	none	Score	.95
Exons	23..1340		

Seq. No.	14573	Seq. ID	OJ990427_07.9922.C26
Gene No.	31069	Strand	+
Start	1	End	1428
Name	OJ990427_07.9922.C26.o1.ts	Method	TBLASTX:Soybean
Start	392	End	1015
GI	none	Score	186
Exons	392..562, 416..556, 436..561, 565..954, 566..1015		

Seq. No.	14573	Seq. ID	OJ990427_07.9922.C26
Gene No.	31069	Strand	+
Start	1	End	1428
Name	OJ990427_07.9922.C26.o2.gp	Method	AAT/GAP
Start	705	End	1197
GI	none	Score	918
Exons	705..1197		

Seq. No.	14573	Seq. ID	OJ990427_07.9922.C26
Gene No.	31069	Strand	+
Start	1	End	1428
Name	OJ990427_07.9922.C26.o1.tm	Method	TBLASTX:Maize
Start	766	End	1042
GI	none	Score	163
Exons	766..882, 767..898, 771..923, 882..989, 883..1038, 890..1042		

Seq. No.	14573	Seq. ID	OJ990427_07.9922.C26
Gene No.	31069	Strand	+
Start	1	End	1428
Name	OJ990427_07.9922.C26.o2.ts	Method	TBLASTX:Soybean
Start	1036	End	1193
GI	none	Score	218
Exons	1036..1191, 1041..1193, 1046..1192		

Seq. No.	14573	Seq. ID	OJ990427_07.9922.C26
Gene No.	31069	Strand	+
Start	1	End	1428
Name	OJ990427_07.9922.C26.o2.tm	Method	TBLASTX:Maize
Start	1046	End	1258
GI	none	Score	60
Exons	1046..1084, 1048..1092, 1085..1228, 1087..1230, 1088..1258		

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31070	Strand	+
Start	1	End	705
Name	OJ990427_07.9922.C27.o1.gp	Method	AAT/GAP
Start	1	End	311
GI	none	Score	554
Exons	1..311		

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31070	Strand	+

Start	1	End	705
Name	OJ990427_07.9922.C27.o1.np	Method	AAT/NAP
Start	1	End	702
GI	6751692	Score	658
Exons	1..702		
GI Descrip.	(AC018908) unknown protein [Arabidopsis thaliana]		

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31070	Strand	+
Start	1	End	705
Name	OJ990427_07.9922.C27.o1.gs	Method	GENSCAN
Start	64	End	705
GI	none	Score	.4
Exons	64..705		

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31071	Strand	+
Start	1432	End	1868
Name	OJ990427_07.9922.C27.o3.gp	Method	AAT/GAP
Start	1432	End	1868
GI	none	Score	832
Exons	1432..1868		

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31072	Strand	-
Start	497	End	1095
Name	OJ990427_07.9922.C27.o2.gp	Method	AAT/GAP
Start	497	End	1095
GI	none	Score	1066
Exons	497..1095		

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31073	Strand	-
Start	1615	End	2055
Name	OJ990427_07.9922.C27.o3.ts	Method	TBLASTX:Soybean
Start	91	End	294
GI	none	Score	207
Exons	91..291, 109..294, 150..293		

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31073	Strand	-
Start	1615	End	2055
Name	OJ990427_07.9922.C27.o4.tm	Method	TBLASTX:Maize
Start	145	End	372
GI	none	Score	68
Exons	145..198, 147..206, 199..342, 201..344, 202..372		

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31073	Strand	-
Start	1615	End	2055
Name	OJ990427_07.9922.C27.o1.tc	Method	TBLASTX:Cress
Start	169	End	717
GI	none	Score	38
Exons	169..213, 210..374, 211..342, 355..705, 489..704, 586..717		

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31073	Strand	-

Start	1615	End	2055
Name	OJ990427_07.9922.C27.o1.ts	Method	TBLASTX:Soybean
Start	294	End	690
GI	none	Score	62
Exons	294..365, 295..366, 409..690,	477..671	

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31073	Strand	-
Start	1615	End	2055
Name	OJ990427_07.9922.C27.o1.tm	Method	TBLASTX:Maize
Start	449	End	731
GI	none	Score	143
Exons	449..628, 452..706, 454..720,	477..731	

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31073	Strand	-
Start	1615	End	2055
Name	OJ990427_07.9922.C27.o3.tm	Method	TBLASTX:Maize
Start	1568	End	1848
GI	none	Score	245
Exons	1568..1843, 1607..1825, 1612..	1848	

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31073	Strand	-
Start	1615	End	2055
Name	OJ990427_07.9922.C27.o1.tw	Method	TBLASTX:Wheat
Start	1615	End	2026
GI	none	Score	518
Exons	1615..2025, 1616..2026, 1790..	2026	

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31073	Strand	-
Start	1615	End	2055
Name	OJ990427_07.9922.C27.o2.gs	Method	GENSCAN
Start	1615	End	2045
GI	none	Score	.92
Exons	1615..2045		

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31073	Strand	-
Start	1615	End	2055
Name	OJ990427_07.9922.C27.o2.ts	Method	TBLASTX:Soybean
Start	1631	End	1882
GI	none	Score	127
Exons	1631..1792, 1633..1743, 1759..	1881, 1763..1882	

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31073	Strand	-
Start	1615	End	2055
Name	OJ990427_07.9922.C27.o2.tm	Method	TBLASTX:Maize
Start	1855	End	2055
GI	none	Score	231
Exons	1855..2055, 1856..2053		

Seq. No.	14574	Seq. ID	OJ990427_07.9922.C27
Gene No.	31073	Strand	-
Start	1615	End	2055

Name	OJ990427_07.9922.C27.o2.tc	Method	TBLASTX:Cress
Start	1897	End	2055
GI	none	Score	184
Exons	1897..2055, 1898..2053		

Seq. No.	14575	Seq. ID	OJ990427_07.9922.C28
Gene No.	31074	Strand	+
Start	20	End	301
Name	OJ990427_07.9922.C28.o1.np	Method	AAT/NAP
Start	20	End	301
GI	6358809	Score	234
Exons	20..301		
GI Descrip.	(AC010675) unknown protein [Arabidopsis thaliana]		

Seq. No.	14575	Seq. ID	OJ990427_07.9922.C28
Gene No.	31075	Strand	-
Start	125	End	209
Name	OJ990427_07.9922.C28.o1.tc	Method	TBLASTX:Cress
Start	10	End	209
GI	none	Score	77
Exons	10..93, 20..88, 79..207, 79..207, 93..209, 105..209		

Seq. No.	14575	Seq. ID	OJ990427_07.9922.C28
Gene No.	31075	Strand	-
Start	125	End	209
Name	OJ990427_07.9922.C28.o1.tm	Method	TBLASTX:Maize
Start	10	End	209
GI	none	Score	112
Exons	10..93, 11..88, 15..89, 79..207, 79..207, 93..209, 96..209		

Seq. No.	14575	Seq. ID	OJ990427_07.9922.C28
Gene No.	31075	Strand	-
Start	125	End	209
Name	OJ990427_07.9922.C28.o1.tw	Method	TBLASTX:Wheat
Start	10	End	209
GI	none	Score	98
Exons	10..93, 11..88, 22..207, 79..195, 99..209, 108..209		

Seq. No.	14575	Seq. ID	OJ990427_07.9922.C28
Gene No.	31075	Strand	-
Start	125	End	209
Name	OJ990427_07.9922.C28.o1.ts	Method	TBLASTX:Soybean
Start	19	End	209
GI	none	Score	85
Exons	19..84, 20..88, 79..207, 93..209, 99..209		

Seq. No.	14575	Seq. ID	OJ990427_07.9922.C28
Gene No.	31075	Strand	-
Start	125	End	209
Name	OJ990427_07.9922.C28.o1.gs	Method	GENSCAN
Start	125	End	188
GI	none	Score	.47
Exons	125..188		

Seq. No.	14576	Seq. ID	OJ990427_07.9922.C29
Gene No.	31076	Strand	-
Start	478	End	527

Name	OJ990427_07.9922.C29.o1.gs	Method	GENSCAN
Start	478	End	527
GI	none	Score	.8
Exons	478..527		

Seq. No.	14577	Seq. ID	OJ990427_07.9922.C30
Gene No.	31077	Strand	-
Start	392	End	539
Name	OJ990427_07.9922.C30.o1.gs	Method	GENSCAN
Start	392	End	539
GI	none	Score	.62
Exons	392..539		

Seq. No.	14578	Seq. ID	OJ990427_07.9922.C33
Gene No.	31078	Strand	-
Start	1	End	488
Name	OJ990427_07.9922.C33.o1.np	Method	AAT/NAP
Start	1	End	488
GI	6063557	Score	270
Exons	1..53, 303..488		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	14578	Seq. ID	OJ990427_07.9922.C33
Gene No.	31078	Strand	-
Start	1	End	488
Name	OJ990427_07.9922.C33.o1.gs	Method	GENSCAN
Start	318	End	482
GI	none	Score	.82
Exons	318..482		

Seq. No.	14579	Seq. ID	OJ990427_07.9922.C34
Gene No.	31079	Strand	+
Start	62	End	588
Name	OJ990427_07.9922.C34.o1.gs	Method	GENSCAN
Start	62	End	588
GI	none	Score	.59
Exons	62..91, 481..588		

Seq. No.	14580	Seq. ID	OJ990427_07.9922.C36
Gene No.	31080	Strand	+
Start	656	End	827
Name	OJ990427_07.9922.C36.o1.np	Method	AAT/NAP
Start	656	End	827
GI	113165	Score	97
Exons	656..827		
GI Descrip.	ACYL CARRIER PROTEIN I PRECURSOR (ACP I) gi|625337|pir||AYBH acyl carrier protein I precursor - barley gi|166967 (M58753) acyl carrier protein I [Hordeum vulgare] gi|166973 (M24425) acyl carrier protein I precursor [Hordeum vulgare]		

Seq. No.	14581	Seq. ID	OJ990427_07.9922.C37
Gene No.	31081	Strand	+
Start	468	End	650
Name	OJ990427_07.9922.C37.o1.gs	Method	GENSCAN
Start	468	End	650
GI	none	Score	.74
Exons	468..650		

Seq. No.	14582	Seq. ID	OJ990427_07.9922.C39
Gene No.	31082	Strand	+
Start	1	End	735
Name	OJ990427_07.9922.C39.o1.np	Method	AAT/NAP
Start	1	End	735
GI	5295971	Score	1065
Exons	1..735		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	14582	Seq. ID	OJ990427_07.9922.C39
Gene No.	31082	Strand	+
Start	1	End	735
Name	OJ990427_07.9922.C39.o1.tm	Method	TBLASTX:Maize
Start	56	End	403
GI	none	Score	503
Exons	56..403, 59..403		

Seq. No.	14582	Seq. ID	OJ990427_07.9922.C39
Gene No.	31082	Strand	+
Start	1	End	735
Name	OJ990427_07.9922.C39.o1.gs	Method	GENSCAN
Start	110	End	672
GI	none	Score	.43
Exons	110..672		

Seq. No.	14582	Seq. ID	OJ990427_07.9922.C39
Gene No.	31082	Strand	+
Start	1	End	735
Name	OJ990427_07.9922.C39.o2.ts	Method	TBLASTX:Soybean
Start	113	End	385
GI	none	Score	184
Exons	113..385, 250..381		

Seq. No.	14582	Seq. ID	OJ990427_07.9922.C39
Gene No.	31082	Strand	+
Start	1	End	735
Name	OJ990427_07.9922.C39.o1.tw	Method	TBLASTX:Wheat
Start	140	End	514
GI	none	Score	88
Exons	140..295, 320..514		

Seq. No.	14582	Seq. ID	OJ990427_07.9922.C39
Gene No.	31082	Strand	+
Start	1	End	735
Name	OJ990427_07.9922.C39.o1.tc	Method	TBLASTX:Cress
Start	320	End	733
GI	none	Score	230
Exons	320..607, 329..502, 514..606, 616..693, 617..733		

Seq. No.	14582	Seq. ID	OJ990427_07.9922.C39
Gene No.	31082	Strand	+
Start	1	End	735
Name	OJ990427_07.9922.C39.o1.ts	Method	TBLASTX:Soybean
Start	389	End	727

GI	none	Score	274
Exons	389..727, 514..717		

Seq. No.	14582	Seq. ID	OJ990427_07.9922.C39
Gene No.	31082	Strand	+
Start	1	End	735
Name	OJ990427_07.9922.C39.o2.tm	Method	TBLASTX:Maize
Start	406	End	733
GI	none	Score	320
Exons	406..492, 416..733, 526..732		

Seq. No.	14583	Seq. ID	OJ990427_07.9922.C40
Gene No.	31083	Strand	-
Start	1	End	125
Name	OJ990427_07.9922.C40.o1.np	Method	AAT/NAP
Start	1	End	125
GI	6498441	Score	100
Exons	1..125		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	14584	Seq. ID	OJ990427_07.9922.C41
Gene No.	31084	Strand	+
Start	72	End	306
Name	OJ990427_07.9922.C41.o1.gs	Method	GENSCAN
Start	72	End	306
GI	none	Score	.71
Exons	72..306		

Seq. No.	14585	Seq. ID	OJ990427_07.9922.C43
Gene No.	31085	Strand	+
Start	1	End	587
Name	OJ990427_07.9922.C43.o1.np	Method	AAT/NAP
Start	1	End	587
GI	4680183	Score	320
Exons	1..587		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	14585	Seq. ID	OJ990427_07.9922.C43
Gene No.	31085	Strand	+
Start	1	End	587
Name	OJ990427_07.9922.C43.o1.gs	Method	GENSCAN
Start	169	End	546
GI	none	Score	.97
Exons	169..546		

Seq. No.	14586	Seq. ID	OJ990427_07.9922.C49
Gene No.	31086	Strand	+
Start	617	End	681
Name	OJ990427_07.9922.C49.o1.gs	Method	GENSCAN
Start	617	End	681
GI	none	Score	.85
Exons	617..681		

Seq. No.	14587	Seq. ID	OJ990427_07.9922.C50
Gene No.	31087	Strand	-

Start	497	End	656
Name	OJ990427_07.9922.C50.o1.gs	Method	GENSCAN
Start	497	End	656
GI	none	Score	.89
Exons	497..555, 590..656		

Seq. No.	14588	Seq. ID	OJ990407_06.9922.C1
Gene No.	31088	Strand	
Start	19	End	351
Name	OJ990407_06.9922.C1.o1.tw	Method	TBLASTX:Wheat
Start	19	End	351
GI	none	Score	181
Exons	19..45, 42..350, 46..351		

Seq. No.	14589	Seq. ID	OJ990407_06.9922.C3
Gene No.	31089	Strand	+
Start	1	End	640
Name	OJ990407_06.9922.C3.o1.np	Method	AAT/NAP
Start	1	End	640
GI	6561963	Score	226
Exons	1..69, 133..258, 341..430, 530..640		
GI Descrip.	(AL132964) putative protein [Arabidopsis thaliana]		

Seq. No.	14589	Seq. ID	OJ990407_06.9922.C3
Gene No.	31089	Strand	+
Start	1	End	640
Name	OJ990407_06.9922.C3.o1.ts	Method	TBLASTX:Soybean
Start	162	End	640
GI	none	Score	144
Exons	162..257, 163..261, 341..430, 527..640, 532..639		

Seq. No.	14589	Seq. ID	OJ990407_06.9922.C3
Gene No.	31089	Strand	+
Start	1	End	640
Name	OJ990407_06.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	173	End	640
GI	none	Score	142
Exons	173..262, 175..261, 177..263, 336..425, 338..430, 339..425, 341..430, 527..640, 529..636, 533..640		

Seq. No.	14589	Seq. ID	OJ990407_06.9922.C3
Gene No.	31089	Strand	+
Start	1	End	640
Name	OJ990407_06.9922.C3.o1.gp	Method	AAT/GAP
Start	174	End	640
GI	31291_1.R1084	Score	508
Exons	174..258, 341..430, 530..640		
GI Descrip.	'5813796/gb|AAD52015.1|AF082862_1 3.0e-15 (AF082862) unknown [Pisum sativum]'		

Seq. No.	14590	Seq. ID	OJ990407_06.9922.C5
Gene No.	31090	Strand	-
Start	611	End	666
Name	OJ990407_06.9922.C5.o1.gs	Method	GENSCAN
Start	611	End	666
GI	none	Score	.83
Exons	611..666		

Seq. No.	14591	Seq. ID	OJ990407_06.9922.C6
Gene No.	31091	Strand	+
Start	73	End	238
Name	OJ990407_06.9922.C6.o1.gs	Method	GENSCAN
Start	73	End	238
GI	none	Score	.82
Exons	73..238		

Seq. No.	14592	Seq. ID	OJ990407_06.9922.C7
Gene No.	31092	Strand	-
Start	358	End	420
Name	OJ990407_06.9922.C7.o1.gs	Method	GENSCAN
Start	358	End	420
GI	none	Score	.4
Exons	358..420		

Seq. No.	14593	Seq. ID	OJ990407_06.9922.C8
Gene No.	31093	Strand	+
Start	794	End	1080
Name	OJ990407_06.9922.C8.o2.np	Method	AAT/NAP
Start	794	End	1080
GI	6498436	Score	213
Exons	794..1080		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	14593	Seq. ID	OJ990407_06.9922.C8
Gene No.	31093	Strand	+
Start	794	End	1080
Name	OJ990407_06.9922.C8.o1.gs	Method	GENSCAN
Start	806	End	970
GI	none	Score	.41
Exons	806..970		

Seq. No.	14593	Seq. ID	OJ990407_06.9922.C8
Gene No.	31094	Strand	-
Start	1	End	469
Name	OJ990407_06.9922.C8.o1.np	Method	AAT/NAP
Start	1	End	469
GI	4206306	Score	185
Exons	1..469		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31095	Strand	+
Start	1	End	3345
Name	OJ990407_06.9922.C9.o1.np	Method	AAT/NAP
Start	1	End	3345
GI	6815052	Score	561
Exons	1..59, 268..400, 1268..1415, 2231..2311, 2360..2792, 2874..2943, 3223..3345		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31096	Strand	+
Start	11814	End	21126
Name	OJ990407_06.9922.C9.o3.gs	Method	GENSCAN

Start	11814	End	21126
GI	none	Score	.53
Exons	11814..11864, 12072..12209, 14641..14820, 17110..17151, 19287..19415, 20592..21014, 21067..21126		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31096	Strand	+
Start	11814	End	21126
Name	OJ990407_06.9922.C9.o1.gp	Method	AAT/GAP
Start	16784	End	17830
GI	2428514	Score	787
Exons	16784..17151, 17783..17830		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31096	Strand	+
Start	11814	End	21126
Name	OJ990407_06.9922.C9.o5.np	Method	AAT/NAP
Start	18026	End	21089
GI	5257262	Score	275
Exons	18026..18060, 19135..19432, 20596..20865, 21007..21089		
GI Descrip.	(AP000364) hypothetical protein [Oryza sativa]		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31097	Strand	+
Start	21035	End	30303
Name	OJ990407_06.9922.C9.o6.np	Method	AAT/NAP
Start	21035	End	30303
GI	4885183	Score	170
Exons	21035..21054, 29872..30303		
GI Descrip.	diaphanous 1 gi|6225268|sp|O60610|DIA1_HUMAN DIAPHANOUS PROTEIN HOMOLOG 1 gi|2947238 (AF051782) diaphanous 1 [Homo sapiens]		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31097	Strand	+
Start	21035	End	30303
Name	OJ990407_06.9922.C9.o3.gp	Method	AAT/GAP
Start	25368	End	25856
GI	none	Score	966
Exons	25368..25856		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31098	Strand	-
Start	1	End	11282
Name	OJ990407_06.9922.C9.o2.np	Method	AAT/NAP
Start	1	End	11282
GI	4206306	Score	718
Exons	1..29, 3428..4096, 6262..7436, 11254..11282		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31098	Strand	-
Start	1	End	11282
Name	OJ990407_06.9922.C9.o2.gs	Method	GENSCAN
Start	3186	End	11128
GI	none	Score	.45
Exons	3186..3280, 3364..3621, 4312..4488, 4527..4662, 5254..5801, 5996..6148, 6308..6382, 6559..6675, 6688..6825, 7126..7300,		

7397..7574, 7609..8357, 8664..8876, 9015..9469, 9775..10059, 10663..11128

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31099	Strand	-
Start	23908	End	23978
Name	OJ990407_06.9922.C9.o3.tw	Method	TBLASTX:Wheat
Start	3491	End	3925
GI	none	Score	40
Exons	3491..3781, 3576..3656, 3708..3782, 3860..3925		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31099	Strand	-
Start	23908	End	23978
Name	OJ990407_06.9922.C9.o1.ts	Method	TBLASTX:Soybean
Start	3554	End	3971
GI	none	Score	70
Exons	3554..3796, 3558..3656, 3711..3785, 3833..3970, 3846..3971, 3860..3970		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31099	Strand	-
Start	23908	End	23978
Name	OJ990407_06.9922.C9.o3.ts	Method	TBLASTX:Soybean
Start	5200	End	5737
GI	none	Score	82
Exons	5200..5310, 5431..5736, 5525..5737		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31099	Strand	-
Start	23908	End	23978
Name	OJ990407_06.9922.C9.o4.tm	Method	TBLASTX:Maize
Start	5437	End	5713
GI	none	Score	105
Exons	5437..5712, 5540..5713		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31099	Strand	-
Start	23908	End	23978
Name	OJ990407_06.9922.C9.o2.ts	Method	TBLASTX:Soybean
Start	6298	End	6766
GI	none	Score	67
Exons	6298..6444, 6300..6485, 6474..6731, 6485..6766		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31099	Strand	-
Start	23908	End	23978
Name	OJ990407_06.9922.C9.o1.tm	Method	TBLASTX:Maize
Start	6455	End	6913
GI	none	Score	296
Exons	6455..6913, 6456..6764, 6819..6908		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31099	Strand	-
Start	23908	End	23978
Name	OJ990407_06.9922.C9.o1.tw	Method	TBLASTX:Wheat
Start	6780	End	7189

GI	none	Score	191
Exons	6780..7181, 6781..7071, 6782..7189, 6819..7172, 6833..7174		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31099	Strand	-
Start	23908	End	23978
Name	OJ990407_06.9922.C9.o2.tm	Method	TBLASTX:Maize
Start	6914	End	7129
GI	none	Score	87
Exons	6914..7126, 6914..7129, 6915..7127		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31099	Strand	-
Start	23908	End	23978
Name	OJ990407_06.9922.C9.o3.tm	Method	TBLASTX:Maize
Start	19170	End	20650
GI	none	Score	263
Exons	19170..19433, 19171..19416, 20450..20467, 20598..20648, 20606..20650		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31099	Strand	-
Start	23908	End	23978
Name	OJ990407_06.9922.C9.o2.tw	Method	TBLASTX:Wheat
Start	19329	End	20881
GI	none	Score	111
Exons	19329..19433, 19329..19469, 20580..20669, 20591..20863, 20592..20876, 20612..20698, 20756..20881		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31099	Strand	-
Start	23908	End	23978
Name	OJ990407_06.9922.C9.o5.tm	Method	TBLASTX:Maize
Start	20679	End	20978
GI	none	Score	50
Exons	20679..20717, 20721..20876, 20756..20890, 20870..20977, 20892..20978		

Seq. No.	14594	Seq. ID	OJ990407_06.9922.C9
Gene No.	31099	Strand	-
Start	23908	End	23978
Name	OJ990407_06.9922.C9.o2.gp	Method	AAT/GAP
Start	23908	End	23978
GI	uC-osflcyp158c04a1	Score	84
Exons	23908..23978		
GI Descrip.	'4581164/gb|AAD24647.1|AC006220_3 2.0e-17 (AC006220) putative polyprotein [Arabidopsis thaliana]'		

Seq. No.	14595	Seq. ID	OJ990407_06.9922.C10
Gene No.	31100	Strand	+
Start	190	End	814
Name	OJ990407_06.9922.C10.o1.gs	Method	GENSCAN
Start	190	End	814
GI	none	Score	.64
Exons	190..379, 381..453, 805..814		

Seq. No.	14595	Seq. ID	OJ990407_06.9922.C10

Gene No.	31101	Strand	-
Start	1551	End	2691
Name	OJ990407_06.9922.C10.o2.gs	Method	GENSCAN
Start	1551	End	2691
GI	none	Score	.5
Exons	1551..1622, 1902..2021, 2545..2595, 2632..2691		

Seq. No.	14595	Seq. ID	OJ990407_06.9922.C10
Gene No.	31102	Strand	-
Start	3541	End	8460
Name	OJ990407_06.9922.C10.o3.gs	Method	GENSCAN
Start	3541	End	8460
GI	none	Score	.41
Exons	3541..3654, 4415..4621, 4751..4997, 5351..5454, 5466..5668, 6029..6247, 6395..6481, 6549..6863, 7371..7450, 7919..8460		

Seq. No.	14596	Seq. ID	OJ990407_06.9922.C11
Gene No.	31103	Strand	-
Start	805	End	1571
Name	OJ990407_06.9922.C11.o1.gs	Method	GENSCAN
Start	805	End	1571
GI	none	Score	.4
Exons	805..903, 1505..1571		

Seq. No.	14597	Seq. ID	OJ990407_06.9922.C12
Gene No.	31104	Strand	+
Start	1	End	4240
Name	OJ990407_06.9922.C12.o2.np	Method	AAT/NAP
Start	1	End	3776
GI	4680183	Score	131
Exons	1..55, 3004..3072, 3685..3776		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	14597	Seq. ID	OJ990407_06.9922.C12
Gene No.	31104	Strand	+
Start	1	End	4240
Name	OJ990407_06.9922.C12.o1.gs	Method	GENSCAN
Start	237	End	4240
GI	none	Score	.51
Exons	237..315, 1780..1845, 3004..3146, 3419..3673, 4172..4240		

Seq. No.	14597	Seq. ID	OJ990407_06.9922.C12
Gene No.	31105	Strand	-
Start	1319	End	1928
Name	OJ990407_06.9922.C12.o1.tm	Method	TBLASTX:Maize
Start	1144	End	1831
GI	none	Score	53
Exons	1144..1167, 1164..1238, 1165..1239, 1167..1238, 1312..1359, 1312..1359, 1316..1366, 1320..1367, 1334..1417, 1354..1425, 1362..1418, 1362..1427, 1363..1425, 1686..1766, 1690..1767, 1690..1767, 1691..1768, 1770..1829, 1770..1829, 1771..1830, 1772..1831		

Seq. No.	14597	Seq. ID	OJ990407_06.9922.C12
Gene No.	31105	Strand	-
Start	1319	End	1928
Name	OJ990407_06.9922.C12.o1.np	Method	AAT/NAP

Start	1319	End	1928
GI	3243136	Score	139
Exons	1319..1416, 1686..1928		
GI Descrip.	(AF047702) fragile histidine triad protein [Mus musculus]		

Seq. No.	14598	Seq. ID	OJ990407_06.9922.C13
Gene No.	31106	Strand	-
Start	107	End	218
Name	OJ990407_06.9922.C13.o1.gs	Method	GENSCAN
Start	107	End	218
GI	none	Score	.5
Exons	107..218		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31107	Strand	+
Start	704	End	15080
Name	OJ990407_06.9922.C14.o1.gs	Method	GENSCAN
Start	704	End	15080
GI	none	Score	.62
Exons	704..946, 1098..1247, 2010..2180, 2377..3036, 3962..4177, 4266..4399, 4484..4550, 5771..5884, 6003..6134, 6210..6626, 7370..7420, 7542..7612, 9884..9968, 10510..10662, 10770..10844, 11055..11144, 11272..11319, 12101..12215, 14667..14811, 14957..15080		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31107	Strand	+
Start	704	End	15080
Name	OJ990407_06.9922.C14.o1.gp	Method	AAT/GAP
Start	1298	End	1472
GI	35458_1.R1084	Score	128
Exons	1298..1397, 1442..1472		
GI Descrip.	'3868853/dbj|BAA34247| 1.0e-21 (AB013853) GPI-anchored protein [Vigna radiata]'		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31107	Strand	+
Start	704	End	15080
Name	OJ990407_06.9922.C14.o2.np	Method	AAT/NAP
Start	2143	End	13244
GI	6958204	Score	3652
Exons	2143..2505, 2560..3036, 3962..4177, 4266..4396, 4484..4550, 4649..4707, 4954..5071, 5771..5884, 6003..6134, 6210..6626, 7370..7420, 7542..7612, 9884..9968, 10510..10662, 10770..10844, 11055..11144, 11272..11319, 12101..12215, 12318..12429, 13137..13244		
GI Descrip.	(AF091838) single-subunit RNA polymerase G [Triticum aestivum]		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31108	Strand	+
Start	17993	End	21309
Name	OJ990407_06.9922.C14.o4.np	Method	AAT/NAP
Start	17993	End	19946
GI	6721516	Score	434
Exons	17993..18243, 18634..18944, 19744..19946		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31108	Strand	+
Start	17993	End	21309
Name	OJ990407_06.9922.C14.o5.np	Method	AAT/NAP
Start	19356	End	21309
GI	4680186	Score	220
Exons	19356..19400, 21105..21309		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31109	Strand	-
Start	1168	End	2317
Name	OJ990407_06.9922.C14.o1.np	Method	AAT/NAP
Start	1168	End	2317
GI	6630699	Score	118
Exons	1168..1252, 2044..2317		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31110	Strand	-
Start	16093	End	17189
Name	OJ990407_06.9922.C14.o3.np	Method	AAT/NAP
Start	16093	End	17189
GI	2213608	Score	491
Exons	16093..17189		
GI Descrip.	(AC000103) F21J9.2 [Arabidopsis thaliana]		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31111	Strand	-
Start	20855	End	21238
Name	OJ990407_06.9922.C14.o2.gp	Method	AAT/GAP
Start	20855	End	21238
GI	uC-osflcyp033a04b1	Score	681
Exons	20855..21238		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31112	Strand	-
Start	21699	End	21803
Name	OJ990407_06.9922.C14.o1.tc	Method	TBLASTX:Cress
Start	2640	End	13309
GI	none	Score	336
Exons	2640..2855, 2647..2973, 2907..2966, 2973..3038, 4025..4180, 4069..4179, 4265..4393, 4266..4394, 4478..4555, 4500..4550, 4648..4734, 4649..4708, 4954..5070, 4955..5071, 5768..5887, 6003..6137, 6012..6131, 6207..6626, 6207..6587, 6209..6616, 7349..7423, 7369..7419, 7541..7612, 7542..7613, 10507..10665, 10508..10654, 10509..10658, 10758..10847, 10770..10847, 11052..11147, 11057..11143, 11272..11328, 12095..12217, 12095..12214, 12100..12216, 12363..12443, 12364..12432, 13127..13243, 13128..13247, 13134..13244, 13136..13309		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31112	Strand	-

Start	21699	End	21803
Name	OJ990407_06.9922.C14.o2.ts	Method	TBLASTX:Soybean
Start	2655	End	3008
GI	none	Score	297
Exons	2655..2867, 2656..2901, 2746..2889, 2907..2987, 2908..2988, 2976..3008		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31112	Strand	-
Start	21699	End	21803
Name	OJ990407_06.9922.C14.o3.tm	Method	TBLASTX:Maize
Start	4316	End	5051
GI	none	Score	118
Exons	4316..4402, 4317..4400, 4471..4551, 4500..4550, 4643..4702, 4644..4703, 4649..4729, 4954..5049, 4955..5050, 4956..5051, 4956..5051		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31112	Strand	-
Start	21699	End	21803
Name	OJ990407_06.9922.C14.o4.tm	Method	TBLASTX:Maize
Start	5856	End	6123
GI	none	Score	41
Exons	5856..5885, 5857..5886, 5858..5887, 6003..6122, 6007..6123, 6015..6122		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31112	Strand	-
Start	21699	End	21803
Name	OJ990407_06.9922.C14.o1.ts	Method	TBLASTX:Soybean
Start	6227	End	6504
GI	none	Score	482
Exons	6227..6502, 6228..6503, 6228..6503, 6229..6504		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31112	Strand	-
Start	21699	End	21803
Name	OJ990407_06.9922.C14.o1.tm	Method	TBLASTX:Maize
Start	6497	End	13282
GI	none	Score	195
Exons	6497..6622, 6498..6620, 6501..6623, 6503..6625, 7367..7423, 7369..7419, 7541..7612, 7541..7624, 7542..7613, 10507..10665, 10509..10664, 10758..10850, 10760..10846, 10770..10847, 11032..11130, 11052..11147, 11054..11143, 11271..11321, 11272..11325, 12095..12217, 12100..12216, 12363..12443, 12364..12432, 13116..13247, 13116..13247, 13124..13282, 13127..13258		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31112	Strand	-
Start	21699	End	21803
Name	OJ990407_06.9922.C14.o2.tw	Method	TBLASTX:Wheat
Start	15904	End	16221
GI	none	Score	83
Exons	15904..16221, 16072..16215		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14

Gene No.	31112	Strand	-
Start	21699	End	21803
Name	OJ990407_06.9922.C14.o1.tw	Method	TBLASTX:Wheat
Start	16616	End	17001
GI	none	Score	50
Exons	16616..16678, 16625..16675, 16677..16874, 16679..16876, 16748..16879, 16873..17001, 16874..16996		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31112	Strand	-
Start	21699	End	21803
Name	OJ990407_06.9922.C14.o2.tm	Method	TBLASTX:Maize
Start	16640	End	17016
GI	none	Score	64
Exons	16640..16861, 16650..16859, 16874..16981, 16879..17016		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31112	Strand	-
Start	21699	End	21803
Name	OJ990407_06.9922.C14.o3.ts	Method	TBLASTX:Soybean
Start	16667	End	17085
GI	none	Score	63
Exons	16667..16867, 16668..16859, 16882..17085		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31112	Strand	-
Start	21699	End	21803
Name	OJ990407_06.9922.C14.o3.gs	Method	GENSCAN
Start	21699	End	21803
GI	none	Score	.99
Exons	21699..21803		

Seq. No.	14599	Seq. ID	OJ990407_06.9922.C14
Gene No.	31112	Strand	-
Start	21699	End	21803
Name	OJ990407_06.9922.C14.o6.np	Method	AAT/NAP
Start	21702	End	21803
GI	6907087	Score	137
Exons	21702..21803		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14600	Seq. ID	OJ990407_06.9922.C15
Gene No.	31113	Strand	-
Start	2	End	1456
Name	OJ990407_06.9922.C15.o1.np	Method	AAT/NAP
Start	2	End	1456
GI	6907087	Score	1043
Exons	2..100, 197..864, 1073..1456		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14601	Seq. ID	OJ990407_06.9922.C16
Gene No.	31114	Strand	-
Start	2162	End	3334

Name	OJ990407_06.9922.C16.o1.ts	Method	TBLASTX:Soybean
Start	2132	End	2818
GI	none	Score	70
Exons	2132..2401, 2226..2372, 2252..2395, 2435..2806, 2435..2818, 2442..2813		

Seq. No.	14601	Seq. ID	OJ990407_06.9922.C16
Gene No.	31114	Strand	-
Start	2162	End	3334
Name	OJ990407_06.9922.C16.o1.tm	Method	TBLASTX:Maize
Start	2140	End	2827
GI	none	Score	83
Exons	2140..2262, 2151..2825, 2160..2264, 2165..2827		

Seq. No.	14601	Seq. ID	OJ990407_06.9922.C16
Gene No.	31114	Strand	-
Start	2162	End	3334
Name	OJ990407_06.9922.C16.o1.np	Method	AAT/NAP
Start	2162	End	3334
GI	3645899	Score	1473
Exons	2162..3334		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	14601	Seq. ID	OJ990407_06.9922.C16
Gene No.	31114	Strand	-
Start	2162	End	3334
Name	OJ990407_06.9922.C16.o1.tc	Method	TBLASTX:Cress
Start	2180	End	2638
GI	none	Score	64
Exons	2180..2425, 2232..2399, 2411..2545, 2549..2638		

Seq. No.	14601	Seq. ID	OJ990407_06.9922.C16
Gene No.	31114	Strand	-
Start	2162	End	3334
Name	OJ990407_06.9922.C16.o2.tw	Method	TBLASTX:Wheat
Start	2213	End	2593
GI	none	Score	58
Exons	2213..2401, 2226..2345, 2420..2593, 2424..2525		

Seq. No.	14601	Seq. ID	OJ990407_06.9922.C16
Gene No.	31114	Strand	-
Start	2162	End	3334
Name	OJ990407_06.9922.C16.o1.tw	Method	TBLASTX:Wheat
Start	2603	End	3019
GI	none	Score	92
Exons	2603..2839, 2852..3019		

Seq. No.	14601	Seq. ID	OJ990407_06.9922.C16
Gene No.	31114	Strand	-
Start	2162	End	3334
Name	OJ990407_06.9922.C16.o2.tm	Method	TBLASTX:Maize
Start	2951	End	3327
GI	none	Score	181
Exons	2951..3229, 2954..3223, 3234..3326, 3235..3327		

Seq. No.	14602	Seq. ID	OJ990407_06.9922.C17
Gene No.	31115	Strand	+

Start	206	End	5503
Name	OJ990407_06.9922.C17.o1.gs	Method	GENSCAN
Start	206	End	5503
GI	none	Score	.71
Exons	206..344, 1388..1432, 2601..3298, 3347..3786, 3791..3924, 4002..4424, 4494..4559, 4818..4979, 5000..5503		

Seq. No.	14602	Seq. ID	OJ990407_06.9922.C17
Gene No.	31116	Strand	+
Start	5749	End	5982
Name	OJ990407_06.9922.C17.o2.gs	Method	GENSCAN
Start	5749	End	5982
GI	none	Score	.93
Exons	5749..5982		

Seq. No.	14602	Seq. ID	OJ990407_06.9922.C17
Gene No.	31117	Strand	-
Start	6733	End	11338
Name	OJ990407_06.9922.C17.o1.tm	Method	TBLASTX:Maize
Start	63	End	7413
GI	none	Score	58
Exons	63..221, 124..225, 135..173, 234..386, 234..386, 274..390, 401..568, 403..570, 7279..7413		

Seq. No.	14602	Seq. ID	OJ990407_06.9922.C17
Gene No.	31117	Strand	-
Start	6733	End	11338
Name	OJ990407_06.9922.C17.o2.tw	Method	TBLASTX:Wheat
Start	159	End	501
GI	none	Score	48
Exons	159..248, 169..222, 263..391, 270..386, 424..501		

Seq. No.	14602	Seq. ID	OJ990407_06.9922.C17
Gene No.	31117	Strand	-
Start	6733	End	11338
Name	OJ990407_06.9922.C17.o2.ts	Method	TBLASTX:Soybean
Start	6730	End	6972
GI	none	Score	38
Exons	6730..6972, 6733..6762, 6833..6970		

Seq. No.	14602	Seq. ID	OJ990407_06.9922.C17
Gene No.	31117	Strand	-
Start	6733	End	11338
Name	OJ990407_06.9922.C17.o1.np	Method	AAT/NAP
Start	6733	End	10726
GI	4544372	Score	537
Exons	6733..7615, 10377..10726		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14602	Seq. ID	OJ990407_06.9922.C17
Gene No.	31117	Strand	-
Start	6733	End	11338
Name	OJ990407_06.9922.C17.o1.tw	Method	TBLASTX:Wheat
Start	6748	End	7155
GI	none	Score	219
Exons	6748..7155		

Seq. No.	14602	Seq. ID	OJ990407_06.9922.C17
Gene No.	31117	Strand	-
Start	6733	End	11338
Name	OJ990407_06.9922.C17.o3.ts	Method	TBLASTX:Soybean
Start	7315	End	7609
GI	none	Score	83
Exons	7315..7608, 7496..7609		

Seq. No.	14602	Seq. ID	OJ990407_06.9922.C17
Gene No.	31117	Strand	-
Start	6733	End	11338
Name	OJ990407_06.9922.C17.o4.gs	Method	GENSCAN
Start	10283	End	11329
GI	none	Score	.61
Exons	10283..11329		

Seq. No.	14602	Seq. ID	OJ990407_06.9922.C17
Gene No.	31117	Strand	-
Start	6733	End	11338
Name	OJ990407_06.9922.C17.o3.tw	Method	TBLASTX:Wheat
Start	10904	End	11293
GI	none	Score	81
Exons	10904..11164, 11204..11293		

Seq. No.	14602	Seq. ID	OJ990407_06.9922.C17
Gene No.	31117	Strand	-
Start	6733	End	11338
Name	OJ990407_06.9922.C17.o1.ts	Method	TBLASTX:Soybean
Start	10928	End	11338
GI	none	Score	112
Exons	10928..11179, 11013..11180, 11201..11338, 11205..11336		

Seq. No.	14603	Seq. ID	OJ990407_06.9922.C18
Gene No.	31118	Strand	-
Start	1	End	1712
Name	OJ990407_06.9922.C18.o1.np	Method	AAT/NAP
Start	1	End	1712
GI	4206306	Score	653
Exons	1..1207, 1613..1712		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	14603	Seq. ID	OJ990407_06.9922.C18
Gene No.	31118	Strand	-
Start	1	End	1712
Name	OJ990407_06.9922.C18.o1.ts	Method	TBLASTX:Soybean
Start	85	End	555
GI	none	Score	83
Exons	85..273, 98..229, 269..517, 274..555		

Seq. No.	14603	Seq. ID	OJ990407_06.9922.C18
Gene No.	31118	Strand	-
Start	1	End	1712
Name	OJ990407_06.9922.C18.o1.gs	Method	GENSCAN
Start	138	End	1560
GI	none	Score	.58
Exons	138..171, 302..831, 915..1386, 1502..1560		

Seq. No.	14603	Seq. ID	OJ990407_06.9922.C18
Gene No.	31118	Strand	-
Start	1	End	1712
Name	OJ990407_06.9922.C18.o2.tw	Method	TBLASTX:Wheat
Start	235	End	570
GI	none	Score	90
Exons	235..570, 293..553		

Seq. No.	14603	Seq. ID	OJ990407_06.9922.C18
Gene No.	31118	Strand	-
Start	1	End	1712
Name	OJ990407_06.9922.C18.o1.tm	Method	TBLASTX:Maize
Start	241	End	702
GI	none	Score	278
Exons	241..702, 242..700, 313..702		

Seq. No.	14603	Seq. ID	OJ990407_06.9922.C18
Gene No.	31118	Strand	-
Start	1	End	1712
Name	OJ990407_06.9922.C18.o1.tw	Method	TBLASTX:Wheat
Start	571	End	974
GI	none	Score	259
Exons	571..912, 571..924, 599..916, 930..974		

Seq. No.	14603	Seq. ID	OJ990407_06.9922.C18
Gene No.	31118	Strand	-
Start	1	End	1712
Name	OJ990407_06.9922.C18.o2.tm	Method	TBLASTX:Maize
Start	703	End	921
GI	none	Score	237
Exons	703..921, 704..916, 721..921		

Seq. No.	14603	Seq. ID	OJ990407_06.9922.C18
Gene No.	31118	Strand	-
Start	1	End	1712
Name	OJ990407_06.9922.C18.o2.ts	Method	TBLASTX:Soybean
Start	772	End	1136
GI	none	Score	74
Exons	772..906, 915..1136, 946..1125		

Seq. No.	14604	Seq. ID	OJ990407_06.9922.C19
Gene No.	31119	Strand	-
Start	191	End	705
Name	OJ990407_06.9922.C19.o1.gs	Method	GENSCAN
Start	191	End	705
GI	none	Score	.62
Exons	191..705		

Seq. No.	14604	Seq. ID	OJ990407_06.9922.C19
Gene No.	31119	Strand	-
Start	191	End	705
Name	OJ990407_06.9922.C19.o1.ts	Method	TBLASTX:Soybean
Start	235	End	573
GI	none	Score	191
Exons	235..573		

Seq. No.	14605	Seq. ID	OJ990407_06.9922.C20
Gene No.	31120	Strand	-
Start	72	End	1195
Name	OJ990407_06.9922.C20.o1.gs	Method	GENSCAN
Start	72	End	1195
GI	none	Score	.66
Exons	72..580, 923..1195		

Seq. No.	14606	Seq. ID	OJ990407_06.9922.C21
Gene No.	31121	Strand	+
Start	1	End	1621
Name	OJ990407_06.9922.C21.o1.np	Method	AAT/NAP
Start	1	End	1621
GI	6721516	Score	169
Exons	1..32, 103..349, 1605..1621		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14606	Seq. ID	OJ990407_06.9922.C21
Gene No.	31121	Strand	+
Start	1	End	1621
Name	OJ990407_06.9922.C21.o1.gs	Method	GENSCAN
Start	185	End	540
GI	none	Score	.61
Exons	185..311, 524..540		

Seq. No.	14606	Seq. ID	OJ990407_06.9922.C21
Gene No.	31122	Strand	-
Start	1365	End	3118
Name	OJ990407_06.9922.C21.o2.gs	Method	GENSCAN
Start	1365	End	3106
GI	none	Score	.69
Exons	1365..1788, 1818..2011, 2839..2846, 2890..3106		

Seq. No.	14606	Seq. ID	OJ990407_06.9922.C21
Gene No.	31122	Strand	-
Start	1365	End	3118
Name	OJ990407_06.9922.C21.o2.np	Method	AAT/NAP
Start	2669	End	3118
GI	2583130	Score	250
Exons	2669..3118		
GI Descrip.	(AC002387) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	14606	Seq. ID	OJ990407_06.9922.C21
Gene No.	31122	Strand	-
Start	1365	End	3118
Name	OJ990407_06.9922.C21.o1.tw	Method	TBLASTX:Wheat
Start	2781	End	3115
GI	none	Score	57
Exons	2781..2858, 2785..2835, 2854..2949, 2861..3028, 2861..3115, 2863..3093, 3065..3115		

Seq. No.	14607	Seq. ID	OJ990407_06.9922.C22
Gene No.	31123	Strand	+
Start	4342	End	5909
Name	OJ990407_06.9922.C22.o2.gs	Method	GENSCAN
Start	4342	End	5909

GI	none	Score	.46
Exons	4342..4518, 5349..5909		

Seq. No.	14607	Seq. ID	OJ990407_06.9922.C22
Gene No.	31124	Strand	+
Start	6215	End	6682
Name	OJ990407_06.9922.C22.o3.gs	Method	GENSCAN
Start	6215	End	6682
GI	none	Score	.85
Exons	6215..6682		

Seq. No.	14607	Seq. ID	OJ990407_06.9922.C22
Gene No.	31125	Strand	-
Start	121	End	3715
Name	OJ990407_06.9922.C22.o1.gs	Method	GENSCAN
Start	121	End	3715
GI	none	Score	.55
Exons	121..724, 894..921, 1454..1511, 1652..2002, 2036..2250, 3468..3520, 3597..3715		

Seq. No.	14607	Seq. ID	OJ990407_06.9922.C22
Gene No.	31125	Strand	-
Start	121	End	3715
Name	OJ990407_06.9922.C22.o1.gp	Method	AAT/GAP
Start	2981	End	3232
GI	61605_3.R1084	Score	379
Exons	2981..3232		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	14607	Seq. ID	OJ990407_06.9922.C22
Gene No.	31126	Strand	-
Start	3622	End	10910
Name	OJ990407_06.9922.C22.o2.np	Method	AAT/NAP
Start	3622	End	10756
GI	6063554	Score	244
Exons	3622..3792, 4434..4462, 6049..6103, 6267..6462, 6751..7005, 10702..10756		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14607	Seq. ID	OJ990407_06.9922.C22
Gene No.	31126	Strand	-
Start	3622	End	10910
Name	OJ990407_06.9922.C22.o2.gp	Method	AAT/GAP
Start	4230	End	4966
GI	101153_1.R1084	Score	364
Exons	4230..4473, 4941..4966		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	14607	Seq. ID	OJ990407_06.9922.C22
Gene No.	31126	Strand	-
Start	3622	End	10910
Name	OJ990407_06.9922.C22.o3.np	Method	AAT/NAP
Start	10172	End	10910

GI	5295955	Score	289
Exons	10172..10711, 10840..10910		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	14608	Seq. ID	OJ990407_06.9922.C23
Gene No.	31127	Strand	+
Start	1828	End	6957
Name	OJ990407_06.9922.C23.o2.np	Method	AAT/NAP
Start	1828	End	4070
GI	1263285	Score	115
Exons	1828..1961, 2319..2715, 4016..4070		
GI Descrip.	(U47854) fibroin-2 [Araneus diadematus]		

Seq. No.	14608	Seq. ID	OJ990407_06.9922.C23
Gene No.	31127	Strand	+
Start	1828	End	6957
Name	OJ990407_06.9922.C23.o3.np	Method	AAT/NAP
Start	3691	End	6808
GI	6561963	Score	649
Exons	3691..3970, 4097..4215, 4336..4399, 4483..4550, 5045..5103, 5213..5343, 5479..5512, 5699..5745, 6310..6390, 6473..6562, 6662..6808		
GI Descrip.	(AL132964) putative protein [Arabidopsis thaliana]		

Seq. No.	14608	Seq. ID	OJ990407_06.9922.C23
Gene No.	31127	Strand	+
Start	1828	End	6957
Name	OJ990407_06.9922.C23.o3.gs	Method	GENSCAN
Start	3893	End	6790
GI	none	Score	.62
Exons	3893..3970, 4097..4215, 4336..4399, 4483..4550, 5187..5372, 6310..6325, 6473..6562, 6662..6790		

Seq. No.	14608	Seq. ID	OJ990407_06.9922.C23
Gene No.	31127	Strand	+
Start	1828	End	6957
Name	OJ990407_06.9922.C23.o1.gp	Method	AAT/GAP
Start	5264	End	6957
GI	31291_1.R1084	Score	1128
Exons	5264..5372, 5699..5745, 6310..6390, 6473..6562, 6662..6957		
GI Descrip.	'5813796/gb|AAD52015.1|AF082862_1 3.0e-15 (AF082862) unknown [Pisum sativum]'		

Seq. No.	14608	Seq. ID	OJ990407_06.9922.C23
Gene No.	31128	Strand	-
Start	675	End	1393
Name	OJ990407_06.9922.C23.o1.np	Method	AAT/NAP
Start	675	End	1393
GI	5295955	Score	190
Exons	675..789, 1331..1393		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	14608	Seq. ID	OJ990407_06.9922.C23
Gene No.	31129	Strand	-
Start	1846	End	3369

Name	OJ990407_06.9922.C23.o2.gs	Method	GENSCAN
Start	1846	End	3369
GI	none	Score	.87
Exons	1846..1954, 2043..2109, 2202..2353, 2616..2685, 3306..3369		

Seq. No.	14608	Seq. ID	OJ990407_06.9922.C23
Gene No.	31130	Strand	
Start	3839	End	6798
Name	OJ990407_06.9922.C23.o1.tm	Method	TBLASTX:Maize
Start	3839	End	6798
GI	none	Score	140
Exons	3839..3973, 3842..3970, 3867..3974, 4074..4211, 4075..4212, 4096..4215, 4097..4216, 4097..4222, 4333..4398, 4334..4399, 4335..4400, 4453..4545, 4483..4548, 4485..4550, 5194..5370, 5200..5331, 5211..5369, 5216..5386, 5338..5397, 5482..5514, 5684..5746, 5697..5786, 5698..5811, 6274..6393, 6307..6393, 6309..6395, 6468..6557, 6470..6562, 6471..6557, 6473..6562, 6659..6790, 6661..6798, 6661..6795		

Seq. No.	14608	Seq. ID	OJ990407_06.9922.C23
Gene No.	31130	Strand	
Start	3839	End	6798
Name	OJ990407_06.9922.C23.o1.ts	Method	TBLASTX:Soybean
Start	3842	End	6784
GI	none	Score	134
Exons	3842..3970, 3853..3969, 3854..3973, 4096..4215, 4097..4216, 4333..4398, 4334..4399, 4483..4551, 5046..5096, 5194..5328, 5196..5327, 5698..5748, 6294..6389, 6295..6393, 6473..6562, 6659..6784, 6664..6783		

Seq. No.	14609	Seq. ID	OJ990407_06.9922.C24
Gene No.	31131	Strand	+
Start	270	End	2095
Name	OJ990407_06.9922.C24.o2.tw	Method	TBLASTX:Wheat
Start	50	End	465
GI	none	Score	269
Exons	50..373, 61..372, 394..465		

Seq. No.	14609	Seq. ID	OJ990407_06.9922.C24
Gene No.	31131	Strand	+
Start	270	End	2095
Name	OJ990407_06.9922.C24.o1.gs	Method	GENSCAN
Start	270	End	1565
GI	none	Score	.54
Exons	270..400, 846..1113, 1459..1565		

Seq. No.	14609	Seq. ID	OJ990407_06.9922.C24
Gene No.	31131	Strand	+
Start	270	End	2095
Name	OJ990407_06.9922.C24.o3.tw	Method	TBLASTX:Wheat
Start	1065	End	1400
GI	none	Score	159
Exons	1065..1307, 1323..1400		

Seq. No.	14609	Seq. ID	OJ990407_06.9922.C24
Gene No.	31131	Strand	+
Start	270	End	2095

Name	OJ990407_06.9922.C24.o1.np	Method	AAT/NAP
Start	1122	End	1529
GI	2462640	Score	471
Exons	1122..1529		
GI Descrip.	(Y13370) reverse transcriptase [Oryza sativa]		

Seq. No.	14609	Seq. ID	OJ990407_06.9922.C24
Gene No.	31131	Strand	+
Start	270	End	2095
Name	OJ990407_06.9922.C24.o1.tm	Method	TBLASTX:Maize
Start	1158	End	2095
GI	none	Score	165
Exons	1158..1433, 1319..1429, 1457..1582, 1458..1583, 1641..1934, 1703..1933, 1923..2072, 1925..2095		

Seq. No.	14609	Seq. ID	OJ990407_06.9922.C24
Gene No.	31132	Strand	
Start	2075	End	2423
Name	OJ990407_06.9922.C24.o1.tw	Method	TBLASTX:Wheat
Start	2075	End	2423
GI	none	Score	278
Exons	2075..2263, 2085..2369, 2115..2333, 2394..2423		

Seq. No.	14609	Seq. ID	OJ990407_06.9922.C24
Gene No.	31132	Strand	
Start	2075	End	2423
Name	OJ990407_06.9922.C24.o2.tm	Method	TBLASTX:Maize
Start	2100	End	2423
GI	none	Score	198
Exons	2100..2282, 2117..2263, 2288..2329, 2289..2330, 2337..2423, 2350..2415		

Seq. No.	14610	Seq. ID	OJ990407_06.9922.C25
Gene No.	31133	Strand	-
Start	23	End	179
Name	OJ990407_06.9922.C25.o1.gs	Method	GENSCAN
Start	23	End	179
GI	none	Score	.55
Exons	23..179		

Seq. No.	14611	Seq. ID	OJ990407_06.9922.C26
Gene No.	31134	Strand	+
Start	1	End	287
Name	OJ990407_06.9922.C26.o1.np	Method	AAT/NAP
Start	1	End	287
GI	6815052	Score	124
Exons	1..32, 164..287		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	14611	Seq. ID	OJ990407_06.9922.C26
Gene No.	31135	Strand	-
Start	117	End	360
Name	OJ990407_06.9922.C26.o1.gs	Method	GENSCAN
Start	117	End	360
GI	none	Score	.95
Exons	117..244, 306..360		

Seq. No.	14612	Seq. ID	OJ990407_06.9922.C27
Gene No.	31136	Strand	+
Start	353	End	670
Name	OJ990407_06.9922.C27.o1.tc	Method	TBLASTX:Cress
Start	345	End	669
GI	none	Score	71
Exons	345..503, 353..511, 353..472,	355..510,	612..665, 616..669

Seq. No.	14612	Seq. ID	OJ990407_06.9922.C27
Gene No.	31136	Strand	+
Start	353	End	670
Name	OJ990407_06.9922.C27.o1.np	Method	AAT/NAP
Start	353	End	670
GI	6958204	Score	245
Exons	353..508, 616..670		
GI Descrip.	(AF091838) single-subunit RNA polymerase G [Triticum aestivum]		

Seq. No.	14612	Seq. ID	OJ990407_06.9922.C27
Gene No.	31136	Strand	+
Start	353	End	670
Name	OJ990407_06.9922.C27.o1.tm	Method	TBLASTX:Maize
Start	353	End	669
GI	none	Score	230
Exons	353..511, 355..510, 604..669,	616..669	

Seq. No.	14613	Seq. ID	OJ990407_06.9922.C29
Gene No.	31137	Strand	+
Start	1	End	237
Name	OJ990407_06.9922.C29.o1.np	Method	AAT/NAP
Start	1	End	237
GI	6523032	Score	90
Exons	1..82, 187..237		
GI Descrip.	(AL132976) flavonol synthase-like protein [Arabidopsis thaliana]		

Seq. No.	14613	Seq. ID	OJ990407_06.9922.C29
Gene No.	31137	Strand	+
Start	1	End	237
Name	OJ990407_06.9922.C29.o1.tm	Method	TBLASTX:Maize
Start	16	End	233
GI	none	Score	118
Exons	16..81, 17..82, 18..83, 136..228,	166..231,	168..233

Seq. No.	14614	Seq. ID	OJ990407_06.9922.C30
Gene No.	31138	Strand	+
Start	11	End	142
Name	OJ990407_06.9922.C30.o1.gs	Method	GENSCAN
Start	11	End	142
GI	none	Score	.43
Exons	11..142		

Seq. No.	14615	Seq. ID	OJ990407_06.9922.C31
Gene No.	31139	Strand	-
Start	605	End	882
Name	OJ990407_06.9922.C31.o1.np	Method	AAT/NAP
Start	605	End	882
GI	81286	Score	65
Exons	605..882		

GI Descrip.	extensin - Volvox carteri (fragment) gi|21992|emb|CAA46283| (X65165) extensin [Volvox carteri]		
Seq. No.	14615	Seq. ID	OJ990407_06.9922.C31
Gene No.	31139	Strand	-
Start	605	End	882
Name	OJ990407_06.9922.C31.o1.gs	Method	GENSCAN
Start	720	End	786
GI	none	Score	.9
Exons	720..786		
Seq. No.	14616	Seq. ID	OJ990407_01.9922.C3
Gene No.	31140	Strand	-
Start	21	End	713
Name	OJ990407_01.9922.C3.o1.gs	Method	GENSCAN
Start	21	End	626
GI	none	Score	.99
Exons	21..626		
Seq. No.	14616	Seq. ID	OJ990407_01.9922.C3
Gene No.	31140	Strand	-
Start	21	End	713
Name	OJ990407_01.9922.C3.o1.np	Method	AAT/NAP
Start	36	End	713
GI	6562299	Score	322
Exons	36..713		
GI Descrip.	(AL133421) proanthranilate N-benzoyltransferase-like protein [Arabidopsis thaliana]		
Seq. No.	14616	Seq. ID	OJ990407_01.9922.C3
Gene No.	31140	Strand	-
Start	21	End	713
Name	OJ990407_01.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	39	End	600
GI	none	Score	85
Exons	39..227, 58..228, 300..368, 348..464, 473..523, 508..600, 540..599		
Seq. No.	14616	Seq. ID	OJ990407_01.9922.C3
Gene No.	31140	Strand	-
Start	21	End	713
Name	OJ990407_01.9922.C3.o1.tc	Method	TBLASTX:Cress
Start	45	End	281
GI	none	Score	73
Exons	45..281, 160..249		
Seq. No.	14616	Seq. ID	OJ990407_01.9922.C3
Gene No.	31140	Strand	-
Start	21	End	713
Name	OJ990407_01.9922.C3.o1.ts	Method	TBLASTX:Soybean
Start	154	End	677
GI	none	Score	82
Exons	154..264, 156..263, 342..416, 361..417, 480..641, 517..576, 627..677		
Seq. No.	14617	Seq. ID	OJ990407_01.9922.C4
Gene No.	31141	Strand	-

Start	1	End	511
Name	OJ990407_01.9922.C4.o1.np	Method	AAT/NAP
Start	1	End	511
GI	4416302	Score	499
Exons	1..511		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	14617	Seq. ID	OJ990407_01.9922.C4
Gene No.	31141	Strand	-
Start	1	End	511
Name	OJ990407_01.9922.C4.o1.tm	Method	TBLASTX:Maize
Start	5	End	322
GI	none	Score	204
Exons	5..205, 9..197, 11..205, 203..322		

Seq. No.	14617	Seq. ID	OJ990407_01.9922.C4
Gene No.	31141	Strand	-
Start	1	End	511
Name	OJ990407_01.9922.C4.o1.tw	Method	TBLASTX:Wheat
Start	17	End	155
GI	none	Score	59
Exons	17..151, 17..154, 18..155		

Seq. No.	14618	Seq. ID	OJ990407_01.9922.C7
Gene No.	31142	Strand	+
Start	1257	End	1745
Name	OJ990407_01.9922.C7.o1.gs	Method	GENSCAN
Start	1257	End	1745
GI	none	Score	.91
Exons	1257..1268, 1434..1745		

Seq. No.	14618	Seq. ID	OJ990407_01.9922.C7
Gene No.	31143	Strand	+
Start	2857	End	5111
Name	OJ990407_01.9922.C7.o2.gs	Method	GENSCAN
Start	2857	End	5111
GI	none	Score	.67
Exons	2857..3120, 3308..4023, 4931..5111		

Seq. No.	14618	Seq. ID	OJ990407_01.9922.C7
Gene No.	31144	Strand	-
Start	7919	End	9359
Name	OJ990407_01.9922.C7.o3.gs	Method	GENSCAN
Start	7919	End	9359
GI	none	Score	.96
Exons	7919..8091, 9314..9359		

Seq. No.	14619	Seq. ID	OJ990407_01.9922.C8
Gene No.	31145	Strand	+
Start	6994	End	7182
Name	OJ990407_01.9922.C8.o2.gs	Method	GENSCAN
Start	6994	End	7182
GI	none	Score	.77
Exons	6994..7080, 7159..7182		

Seq. No.	14619	Seq. ID	OJ990407_01.9922.C8
Gene No.	31146	Strand	-

Start	9262	End	11170
Name	OJ990407_01.9922.C8.o3.gs	Method	GENSCAN
Start	9262	End	11170
GI	none	Score	.56
Exons	9262..9341, 11065..11170		

Seq. No.	14620	Seq. ID	OJ990407_01.9922.C9
Gene No.	31147	Strand	+
Start	343	End	6356
Name	OJ990407_01.9922.C9.o1.gs	Method	GENSCAN
Start	343	End	6356
GI	none	Score	.56
Exons	343..450, 3515..3658, 6312..6356		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31148	Strand	+
Start	132	End	3169
Name	OJ990407_01.9922.C10.o1.gp	Method	AAT/GAP
Start	132	End	582
GI	LIB3474-001-P1-K1-B10	Score	886
Exons	132..582		
GI Descrip.	'4803931/gb|AAD29804.1|AC006264_12 2.0e-24 (AC006264) unknown protein [Arabidopsis thaliana]'		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31148	Strand	+
Start	132	End	3169
Name	OJ990407_01.9922.C10.o1.gs	Method	GENSCAN
Start	270	End	3169
GI	none	Score	1
Exons	270..353, 1351..1492, 2192..2283, 2477..3169		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31148	Strand	+
Start	132	End	3169
Name	OJ990407_01.9922.C10.o1.np	Method	AAT/NAP
Start	288	End	3160
GI	5123942	Score	973
Exons	288..353, 1351..1492, 2192..2283, 2477..3160		
GI Descrip.	(AL079349) putative protein [Arabidopsis thaliana]		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31149	Strand	-
Start	3642	End	8001
Name	OJ990407_01.9922.C10.o1.tm	Method	TBLASTX:Maize
Start	304	End	3171
GI	none	Score	66
Exons	304..342, 312..353, 1345..1491, 1348..1491, 1350..1499, 1511..1624, 2191..2277, 2456..3160, 2479..3159, 3026..3160, 3076..3171		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31149	Strand	-
Start	3642	End	8001
Name	OJ990407_01.9922.C10.o1.ts	Method	TBLASTX:Soybean
Start	2456	End	2941
GI	none	Score	119

Exons 2456..2611, 2476..2547, 2611..2931, 2612..2941

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31149	Strand	-
Start	3642	End	8001
Name	OJ990407_01.9922.C10.o2.ts	Method	TBLASTX:Soybean
Start	2942	End	3157
GI	none	Score	219
Exons	2942..3157, 2944..3156		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31149	Strand	-
Start	3642	End	8001
Name	OJ990407_01.9922.C10.o1.tc	Method	TBLASTX:Cress
Start	2975	End	3157
GI	none	Score	194
Exons	2975..3157, 2989..3156		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31149	Strand	-
Start	3642	End	8001
Name	OJ990407_01.9922.C10.o3.gp	Method	AAT/GAP
Start	3642	End	4036
GI	11899_1.R1084	Score	759
Exons	3642..4036		
GI Descrip.	'5922603/dbj|AP000492.1|AP000492 9.0e-15 Oryza sativa genomic DNA, chromosome 1, clone:P0705D01'		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31149	Strand	-
Start	3642	End	8001
Name	OJ990407_01.9922.C10.o2.gs	Method	GENSCAN
Start	3886	End	7956
GI	none	Score	.87
Exons	3886..4136, 4602..4668, 6262..6383, 6468..6630, 7287..7534, 7623..7956		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31149	Strand	-
Start	3642	End	8001
Name	OJ990407_01.9922.C10.o4.tm	Method	TBLASTX:Maize
Start	3887	End	4674
GI	none	Score	63
Exons	3887..3934, 3939..3971, 3966..4127, 4009..4137, 4600..4674, 4601..4666		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31149	Strand	-
Start	3642	End	8001
Name	OJ990407_01.9922.C10.o2.np	Method	AAT/NAP
Start	3919	End	8001
GI	4406775	Score	256
Exons	3919..4100, 4605..4688, 6115..6169, 6262..6383, 6468..6614, 7283..7535, 7726..8001		
GI Descrip.	(AC006836) unknown protein [Arabidopsis thaliana]		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10

Gene No.	31149	Strand	-
Start	3642	End	8001
Name	OJ990407_01.9922.C10.o4.gp	Method	AAT/GAP
Start	4604	End	7335
GI	uC-osflcyp099b01b1	Score	829
Exons	4604..4668, 6104..6169, 6262..6383, 6468..6630, 7287..7335		
GI Descrip.	'4406775/gb|AAD20086| 9.0e-12 (AC006836) unknown protein [Arabidopsis thaliana]'		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31149	Strand	-
Start	3642	End	8001
Name	OJ990407_01.9922.C10.o2.tm	Method	TBLASTX:Maize
Start	6107	End	7559
GI	none	Score	48
Exons	6107..6172, 6109..6171, 6250..6387, 6269..6388, 6278..6385, 6469..6522, 6469..6510, 6553..6630, 6565..6627, 7270..7305, 7282..7326, 7362..7460, 7364..7465, 7386..7460, 7461..7559, 7461..7535		

Seq. No.	14621	Seq. ID	OJ990407_01.9922.C10
Gene No.	31149	Strand	-
Start	3642	End	8001
Name	OJ990407_01.9922.C10.o3.tm	Method	TBLASTX:Maize
Start	7744	End	8001
GI	none	Score	88
Exons	7744..8001, 7754..7831, 7825..7959, 7895..7999		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31150	Strand	-
Start	577	End	2164
Name	OJ990407_01.9922.C11.o1.np	Method	AAT/NAP
Start	577	End	2164
GI	6002089	Score	147
Exons	577..611, 1210..1248, 2042..2164		
GI Descrip.	(X84147) ribosomal protein S4 [Typha angustifolia]		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-
Start	2150	End	5145
Name	OJ990407_01.9922.C11.o2.tw	Method	TBLASTX:Wheat
Start	1705	End	3320
GI	none	Score	53
Exons	1705..1767, 2865..3041, 2866..2982, 2868..3035, 3063..3320, 3064..3186		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-
Start	2150	End	5145
Name	OJ990407_01.9922.C11.o2.gs	Method	GENSCAN
Start	2150	End	5145
GI	none	Score	.57
Exons	2150..2313, 2837..3290, 3470..3627, 3629..4334, 4443..4586, 4659..4851, 4976..5145		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-

Start	2150	End	5145
Name	OJ990407_01.9922.C11.o1.tm	Method	TBLASTX:Maize
Start	2799	End	3475
GI	none	Score	211
Exons	2799..3095, 2805..3443, 2812..3249, 3020..3442, 3177..3446, 3382..3447, 3443..3475		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-
Start	2150	End	5145
Name	OJ990407_01.9922.C11.o2.np	Method	AAT/NAP
Start	2802	End	3698
GI	3645899	Score	1226
Exons	2802..3698		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-
Start	2150	End	5145
Name	OJ990407_01.9922.C11.o1.ts	Method	TBLASTX:Soybean
Start	2817	End	3443
GI	none	Score	116
Exons	2817..3050, 3072..3443, 3076..3375		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-
Start	2150	End	5145
Name	OJ990407_01.9922.C11.o1.tc	Method	TBLASTX:Cress
Start	2820	End	3278
GI	none	Score	75
Exons	2820..3074, 3051..3185, 3189..3278		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-
Start	2150	End	5145
Name	OJ990407_01.9922.C11.o2.ts	Method	TBLASTX:Soybean
Start	3443	End	3695
GI	none	Score	70
Exons	3443..3682, 3528..3695		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-
Start	2150	End	5145
Name	OJ990407_01.9922.C11.o4.tm	Method	TBLASTX:Maize
Start	3476	End	3679
GI	none	Score	179
Exons	3476..3679, 3477..3659		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-
Start	2150	End	5145
Name	OJ990407_01.9922.C11.o1.tw	Method	TBLASTX:Wheat
Start	3681	End	4181
GI	none	Score	80
Exons	3681..3893, 3697..3897, 3887..3919, 3895..3921, 3895..3921, 3924..4169, 3933..4181, 3952..4179		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-
Start	2150	End	5145
Name	OJ990407_01.9922.C11.o5.tm	Method	TBLASTX:Maize
Start	3681	End	3857
GI	none	Score	132
Exons	3681..3857, 3688..3840		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-
Start	2150	End	5145
Name	OJ990407_01.9922.C11.o2.tm	Method	TBLASTX:Maize
Start	3858	End	4340
GI	none	Score	310
Exons	3858..4223, 3862..4215, 3864..4223, 4221..4340		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-
Start	2150	End	5145
Name	OJ990407_01.9922.C11.o3.tm	Method	TBLASTX:Maize
Start	4404	End	4691
GI	none	Score	83
Exons	4404..4628, 4417..4632, 4419..4622, 4624..4686, 4638..4691, 4638..4688		

Seq. No.	14622	Seq. ID	OJ990407_01.9922.C11
Gene No.	31151	Strand	-
Start	2150	End	5145
Name	OJ990407_01.9922.C11.o3.np	Method	AAT/NAP
Start	4602	End	4764
GI	4416301	Score	81
Exons	4602..4764		
GI Descrip.	(AF105716) gag protein [Zea mays]		

Seq. No.	14623	Seq. ID	OJ990407_01.9922.C12
Gene No.	31152	Strand	+
Start	7599	End	10562
Name	OJ990407_01.9922.C12.o4.gs	Method	GENSCAN
Start	7599	End	10459
GI	none	Score	.87
Exons	7599..7715, 9721..9813, 10301..10459		

Seq. No.	14623	Seq. ID	OJ990407_01.9922.C12
Gene No.	31152	Strand	+
Start	7599	End	10562
Name	OJ990407_01.9922.C12.o2.np	Method	AAT/NAP
Start	7605	End	10497
GI	4803931	Score	698
Exons	7605..7728, 8077..8215, 8300..8460, 8931..9058, 9141..9278, 9721..9813, 10301..10497		
GI Descrip.	(AC006264) unknown protein [Arabidopsis thaliana]		

Seq. No.	14623	Seq. ID	OJ990407_01.9922.C12
Gene No.	31152	Strand	+
Start	7599	End	10562
Name	OJ990407_01.9922.C12.o1.gp	Method	AAT/GAP
Start	9199	End	10562

GI	4716504	Score	816
Exons	9199..9278, 9721..9813, 10301..10562		
GI Descrip.	4803931/gb|AAD29804.1|AC006264_12 2.0e-24 (AC006264) unknown protein [Arabidopsis thaliana]		

Seq. No.	14623	Seq. ID	OJ990407_01.9922.C12
Gene No.	31153	Strand	-
Start	1	End	1028
Name	OJ990407_01.9922.C12.o1.np	Method	AAT/NAP
Start	1	End	1028
GI	3645898	Score	537
Exons	1..1028		
GI Descrip.	(U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]		

Seq. No.	14623	Seq. ID	OJ990407_01.9922.C12
Gene No.	31153	Strand	-
Start	1	End	1028
Name	OJ990407_01.9922.C12.o1.gs	Method	GENSCAN
Start	44	End	842
GI	none	Score	.52
Exons	44..842		

Seq. No.	14623	Seq. ID	OJ990407_01.9922.C12
Gene No.	31154	Strand	-
Start	1606	End	3741
Name	OJ990407_01.9922.C12.o2.gs	Method	GENSCAN
Start	1606	End	3741
GI	none	Score	.47
Exons	1606..1672, 1752..1841, 2131..2391, 3003..3196, 3201..3261, 3473..3741		

Seq. No.	14623	Seq. ID	OJ990407_01.9922.C12
Gene No.	31155	Strand	-
Start	6027	End	6275
Name	OJ990407_01.9922.C12.o1.tm	Method	TBLASTX:Maize
Start	408	End	812
GI	none	Score	80
Exons	408..812, 421..711, 549..773		

Seq. No.	14623	Seq. ID	OJ990407_01.9922.C12
Gene No.	31155	Strand	-
Start	6027	End	6275
Name	OJ990407_01.9922.C12.o3.gs	Method	GENSCAN
Start	6027	End	6275
GI	none	Score	.9
Exons	6027..6275		

Seq. No.	14623	Seq. ID	OJ990407_01.9922.C12
Gene No.	31156	Strand	
Start	7671	End	9845
Name	OJ990407_01.9922.C12.o2.tm	Method	TBLASTX:Maize
Start	7671	End	9845
GI	none	Score	70
Exons	7671..7727, 7884..7958, 7885..7938, 8118..8210, 8120..8215, 8123..8215, 8291..8446, 8297..8458, 8298..8459, 9140..9277, 9141..9278, 9262..9285, 9720..9845, 9727..9813		

Seq. No.	14623	Seq. ID	OJ990407_01.9922.C12
Gene No.	31156	Strand	
Start	7671	End	9845
Name	OJ990407_01.9922.C12.o1.tw	Method	TBLASTX:Wheat
Start	8122	End	9194
GI	none	Score	70
Exons	8122..8205, 8123..8215, 8124..8210, 8288..8446, 8298..8462, 8302..8460, 8303..8461, 8930..9070, 9010..9060, 9141..9194		

Seq. No.	14623	Seq. ID	OJ990407_01.9922.C12
Gene No.	31156	Strand	
Start	7671	End	9845
Name	OJ990407_01.9922.C12.o1.ts	Method	TBLASTX:Soybean
Start	8295	End	9206
GI	none	Score	230
Exons	8295..8462, 8297..8461, 8930..9061, 9141..9206		

Seq. No.	14624	Seq. ID	OJ990407_01.9922.C14
Gene No.	31157	Strand	+
Start	70	End	1722
Name	OJ990407_01.9922.C14.o1.gs	Method	GENSCAN
Start	70	End	1722
GI	none	Score	.87
Exons	70..325, 1509..1722		

Seq. No.	14624	Seq. ID	OJ990407_01.9922.C14
Gene No.	31158	Strand	-
Start	2647	End	5389
Name	OJ990407_01.9922.C14.o2.gs	Method	GENSCAN
Start	2647	End	5389
GI	none	Score	1
Exons	2647..3762, 5042..5389		

Seq. No.	14625	Seq. ID	OJ990407_01.9922.C15
Gene No.	31159	Strand	+
Start	1299	End	1636
Name	OJ990407_01.9922.C15.o1.np	Method	AAT/NAP
Start	1299	End	1636
GI	343210	Score	458
Exons	1299..1636		
GI Descrip.	(M35995) apocytochrome b6 (alt.) [Oryza sativa] gi|226762|prf||1604469A cytochrome b6 [Oryza sativa]		

Seq. No.	14625	Seq. ID	OJ990407_01.9922.C15
Gene No.	31160	Strand	-
Start	387	End	4830
Name	OJ990407_01.9922.C15.o1.gs	Method	GENSCAN
Start	387	End	4830
GI	none	Score	.63
Exons	387..557, 614..708, 956..1110, 2950..3145, 4611..4830		

Seq. No.	14625	Seq. ID	OJ990407_01.9922.C15
Gene No.	31160	Strand	-
Start	387	End	4830
Name	OJ990407_01.9922.C15.o1.tc	Method	TBLASTX:Cress
Start	1275	End	1556

GI	none	Score	91
Exons	1275..1343, 1275..1328, 1328..1546, 1344..1556, 1344..1556		

Seq. No.	14625	Seq. ID	OJ990407_01.9922.C15
Gene No.	31160	Strand	-
Start	387	End	4830
Name	OJ990407_01.9922.C15.o1.ts	Method	TBLASTX:Soybean
Start	1275	End	1594
GI	none	Score	85
Exons	1275..1331, 1277..1312, 1278..1334, 1308..1592, 1320..1592, 1358..1594		

Seq. No.	14625	Seq. ID	OJ990407_01.9922.C15
Gene No.	31160	Strand	-
Start	387	End	4830
Name	OJ990407_01.9922.C15.o1.gp	Method	AAT/GAP
Start	1276	End	1599
GI	uC-osflcyp011b01b1	Score	551
Exons	1276..1599		
GI Descrip.	'343210 5.0e-78 (M35995) apocytochrome b6 (alt.) [Oryza sativa] >gi_226762_prf__1604469A cytochrome b6 [Oryza sativa]'		

Seq. No.	14625	Seq. ID	OJ990407_01.9922.C15
Gene No.	31160	Strand	-
Start	387	End	4830
Name	OJ990407_01.9922.C15.o1.tm	Method	TBLASTX:Maize
Start	1353	End	1594
GI	none	Score	346
Exons	1353..1592, 1409..1594		

Seq. No.	14626	Seq. ID	OJ990407_01.9922.C16
Gene No.	31161	Strand	+
Start	26	End	3393
Name	OJ990407_01.9922.C16.o1.gs	Method	GENSCAN
Start	26	End	3068
GI	none	Score	.59
Exons	26..76, 479..763, 1157..1343, 2766..3068		

Seq. No.	14626	Seq. ID	OJ990407_01.9922.C16
Gene No.	31161	Strand	+
Start	26	End	3393
Name	OJ990407_01.9922.C16.o2.np	Method	AAT/NAP
Start	2814	End	3393
GI	3337367	Score	142
Exons	2814..3080, 3371..3393		
GI Descrip.	(AC004481) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14626	Seq. ID	OJ990407_01.9922.C16
Gene No.	31162	Strand	-
Start	1	End	2486
Name	OJ990407_01.9922.C16.o1.np	Method	AAT/NAP
Start	1	End	2486
GI	6006359	Score	56
Exons	1..28, 598..703, 2433..2486		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	14626	Seq. ID	OJ990407_01.9922.C16

Gene No.	31163	Strand	
Start	2889	End	3077
Name	OJ990407_01.9922.C16.o1.tc	Method	TBLASTX:Cress
Start	2889	End	3077
GI	none	Score	200
Exons	2889..3077, 2891..3067		

Seq. No.	14626	Seq. ID	OJ990407_01.9922.C16
Gene No.	31163	Strand	
Start	2889	End	3077
Name	OJ990407_01.9922.C16.o1.tm	Method	TBLASTX:Maize
Start	2889	End	3068
GI	none	Score	267
Exons	2889..2984, 2891..3064, 2892..3068		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31164	Strand	+
Start	1	End	12837
Name	OJ990407_01.9922.C17.o1.np	Method	AAT/NAP
Start	1	End	12837
GI	3337367	Score	973
Exons	1..545, 1041..1116, 1220..1269, 1417..1655, 1850..1968, 11694..11785, 12807..12837		
GI Descrip.	(AC004481) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31164	Strand	+
Start	1	End	12837
Name	OJ990407_01.9922.C17.o1.gs	Method	GENSCAN
Start	7	End	2748
GI	none	Score	.96
Exons	7..545, 1044..1130, 1213..1269, 1417..1655, 2408..2748		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31164	Strand	+
Start	1	End	12837
Name	OJ990407_01.9922.C17.o1.gp	Method	AAT/GAP
Start	2418	End	2884
GI	none	Score	755
Exons	2418..2884		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31165	Strand	+
Start	13244	End	16400
Name	OJ990407_01.9922.C17.o4.gs	Method	GENSCAN
Start	13244	End	16400
GI	none	Score	.9
Exons	13244..13300, 15918..16400		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31166	Strand	+
Start	31096	End	38467
Name	OJ990407_01.9922.C17.o8.gs	Method	GENSCAN
Start	31096	End	36571
GI	none	Score	.41
Exons	31096..31290, 31852..31951, 32770..32948, 33317..33576, 33683..33802, 34561..34681, 35120..36571		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31166	Strand	+
Start	31096	End	38467
Name	OJ990407_01.9922.C17.o4.np	Method	AAT/NAP
Start	35408	End	38467
GI	2258319	Score	80
Exons	35408..35508, 37621..37772, 37902..38042, 38127..38467		
GI Descrip.	(AF004880) resistance complex protein I2C-3 [Lycopersicon esculentum]		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31166	Strand	+
Start	31096	End	38467
Name	OJ990407_01.9922.C17.o3.np	Method	AAT/NAP
Start	35696	End	38261
GI	2792220	Score	650
Exons	35696..35846, 35886..37302, 38083..38261		
GI Descrip.	(AF032688) NBS-LRR type resistance protein [Oryza sativa]		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31167	Strand	+
Start	40508	End	42533
Name	OJ990407_01.9922.C17.o5.np	Method	AAT/NAP
Start	40508	End	42533
GI	6319186	Score	591
Exons	40508..41317, 42503..42533		
GI Descrip.	(AF195140) GDP-D-mannose 4,6-dehydratase; GMD1 [Arabidopsis thaliana]		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31168	Strand	-
Start	4796	End	5633
Name	OJ990407_01.9922.C17.o2.gs	Method	GENSCAN
Start	4796	End	5633
GI	none	Score	.7
Exons	4796..4960, 5057..5172, 5177..5633		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31169	Strand	-
Start	10364	End	10651
Name	OJ990407_01.9922.C17.o3.gs	Method	GENSCAN
Start	10364	End	10651
GI	none	Score	.72
Exons	10364..10651		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31170	Strand	-
Start	23227	End	23988
Name	OJ990407_01.9922.C17.o6.gs	Method	GENSCAN
Start	23227	End	23988
GI	none	Score	.94
Exons	23227..23988		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31171	Strand	-
Start	25329	End	29645

Name	OJ990407_01.9922.C17.o2.np	Method	AAT/NAP
Start	25015	End	25443
GI	6539570	Score	135
Exons	25015..25081, 25241..25443		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31171	Strand	-
Start	25329	End	29645
Name	OJ990407_01.9922.C17.o7.gs	Method	GENSCAN
Start	25329	End	29645
GI	none	Score	.59
Exons	25329..25487, 26186..26334, 27195..27233, 29612..29645		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31172	Strand	-
Start	39691	End	43320
Name	OJ990407_01.9922.C17.o2.tc	Method	TBLASTX:Cress
Start	3	End	345
GI	none	Score	314
Exons	3..308, 4..345		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31172	Strand	-
Start	39691	End	43320
Name	OJ990407_01.9922.C17.o2.ts	Method	TBLASTX:Soybean
Start	3	End	543
GI	none	Score	237
Exons	3..236, 4..354, 261..353, 445..543, 453..542		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31172	Strand	-
Start	39691	End	43320
Name	OJ990407_01.9922.C17.o1.tm	Method	TBLASTX:Maize
Start	60	End	354
GI	none	Score	389
Exons	60..353, 61..354		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31172	Strand	-
Start	39691	End	43320
Name	OJ990407_01.9922.C17.o3.tm	Method	TBLASTX:Maize
Start	1399	End	5745
GI	none	Score	225
Exons	1399..1653, 1409..1654, 5636..5722, 5640..5714, 5644..5745, 5646..5744		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31172	Strand	-
Start	39691	End	43320
Name	OJ990407_01.9922.C17.o3.tc	Method	TBLASTX:Cress
Start	1414	End	5748
GI	none	Score	213
Exons	1414..1656, 1415..1657, 5647..5748, 5652..5747		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31172	Strand	-

Start	39691	End	43320
Name	OJ990407_01.9922.C17.o4.tm	Method	TBLASTX:Maize
Start	1839	End	11961
GI	none	Score	146
Exons	1839..1985, 1845..1970, 1846..1980, 2188..2289, 2200..2286, 2201..2296, 2407..2469, 2408..2470, 5817..5870, 5817..5903, 6013..6072, 11681..11782, 11693..11779, 11694..11789, 11694..11780, 11899..11961, 11900..11959, 11905..11961		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31172	Strand	-
Start	39691	End	43320
Name	OJ990407_01.9922.C17.o5.tm	Method	TBLASTX:Maize
Start	36238	End	36722
GI	none	Score	58
Exons	36238..36291, 36239..36292, 36407..36535, 36415..36543, 36540..36722		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31172	Strand	-
Start	39691	End	43320
Name	OJ990407_01.9922.C17.o3.ts	Method	TBLASTX:Soybean
Start	36555	End	36857
GI	none	Score	159
Exons	36555..36764, 36765..36857		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31172	Strand	-
Start	39691	End	43320
Name	OJ990407_01.9922.C17.o10.gs	Method	GENSCAN
Start	39691	End	43320
GI	none	Score	.49
Exons	39691..39818, 40401..40494, 40707..40949, 40993..41309, 41376..41450, 41596..41883, 41897..42176, 42499..42593, 43239..43320		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31172	Strand	-
Start	39691	End	43320
Name	OJ990407_01.9922.C17.o1.ts	Method	TBLASTX:Soybean
Start	40505	End	41378
GI	none	Score	102
Exons	40505..40636, 40549..40635, 40701..40880, 40746..40880, 40898..40987, 40899..40988, 40966..41055, 41000..41056, 41050..41106, 41060..41107, 41310..41378		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17
Gene No.	31172	Strand	-
Start	39691	End	43320
Name	OJ990407_01.9922.C17.o1.tc	Method	TBLASTX:Cress
Start	40543	End	41396
GI	none	Score	98
Exons	40543..40635, 40553..40636, 40701..40880, 40893..40988, 40907..40987, 40966..41055, 41060..41107, 41116..41151, 41151..41300, 41152..41301, 41310..41396		

Seq. No.	14627	Seq. ID	OJ990407_01.9922.C17

Gene No.	31172	Strand	-
Start	39691	End	43320
Name	OJ990407_01.9922.C17.o2.tm	Method	TBLASTX:Maize
Start	40583	End	40850
GI	none	Score	65
Exons	40583..40636, 40589..40636, 40641..40850, 40643..40825, 40746..40850		

Seq. No.	14628	Seq. ID	OJ990407_01.9922.C18
Gene No.	31173	Strand	-
Start	1	End	297
Name	OJ990407_01.9922.C18.o1.np	Method	AAT/NAP
Start	1	End	297
GI	6523038	Score	100
Exons	1..297		
GI Descrip.	(AL132976) anthranilate N-hydroxycinnamoyl/benzoyltransferase-like protein [Arabidopsis thaliana]		

Seq. No.	14628	Seq. ID	OJ990407_01.9922.C18
Gene No.	31173	Strand	-
Start	1	End	297
Name	OJ990407_01.9922.C18.o1.gs	Method	GENSCAN
Start	123	End	294
GI	none	Score	.4
Exons	123..294		

Seq. No.	14629	Seq. ID	OJ990407_01.9922.C19
Gene No.	31174	Strand	-
Start	1	End	505
Name	OJ990407_01.9922.C19.o1.np	Method	AAT/NAP
Start	1	End	505
GI	3337367	Score	152
Exons	1..505		
GI Descrip.	(AC004481) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14629	Seq. ID	OJ990407_01.9922.C19
Gene No.	31174	Strand	-
Start	1	End	505
Name	OJ990407_01.9922.C19.o1.tc	Method	TBLASTX:Cress
Start	242	End	430
GI	none	Score	175
Exons	242..430, 252..428		

Seq. No.	14629	Seq. ID	OJ990407_01.9922.C19
Gene No.	31174	Strand	-
Start	1	End	505
Name	OJ990407_01.9922.C19.o1.gs	Method	GENSCAN
Start	251	End	493
GI	none	Score	.75
Exons	251..493		

Seq. No.	14629	Seq. ID	OJ990407_01.9922.C19
Gene No.	31174	Strand	-
Start	1	End	505
Name	OJ990407_01.9922.C19.o1.tm	Method	TBLASTX:Maize
Start	251	End	454

GI	none	Score	230
Exons	251..454, 255..428, 335..430		

Seq. No.	14630	Seq. ID	OJ990427_03.9927.C1
Gene No.	31175	Strand	+
Start	1	End	698
Name	OJ990427_03.9927.C1.o1.np	Method	AAT/NAP
Start	1	End	698
GI	3915018	Score	537
Exons	1..85, 142..204, 293..355, 445..698		
GI Descrip.	SUCROSE-PHOSPHATE SYNTHASE (UDP-GLUCOSE-FRUCTOSE-PHOSPHATE GLUCOSYLTRANSFERASE) gi|2117724|pir||JC4783 sucrose-phosphate synthase (EC 2.4.1.14) - rice gi|988270 (U33175) sucrose phosphate synthase [Oryza sativa]		

Seq. No.	14630	Seq. ID	OJ990427_03.9927.C1
Gene No.	31175	Strand	+
Start	1	End	698
Name	OJ990427_03.9927.C1.o1.tm	Method	TBLASTX:Maize
Start	136	End	675
GI	none	Score	95
Exons	136..204, 148..237, 278..349, 284..349, 292..357, 292..351, 444..674, 445..675		

Seq. No.	14630	Seq. ID	OJ990427_03.9927.C1
Gene No.	31175	Strand	+
Start	1	End	698
Name	OJ990427_03.9927.C1.o1.tc	Method	TBLASTX:Cress
Start	148	End	666
GI	none	Score	89
Exons	148..204, 150..203, 278..358, 292..348, 442..558, 447..566, 580..666		

Seq. No.	14630	Seq. ID	OJ990427_03.9927.C1
Gene No.	31175	Strand	+
Start	1	End	698
Name	OJ990427_03.9927.C1.o1.ts	Method	TBLASTX:Soybean
Start	148	End	642
GI	none	Score	87
Exons	148..204, 150..203, 278..358, 292..357, 442..642, 453..617		

Seq. No.	14630	Seq. ID	OJ990427_03.9927.C1
Gene No.	31175	Strand	+
Start	1	End	698
Name	OJ990427_03.9927.C1.o1.gp	Method	AAT/GAP
Start	149	End	698
GI	45667_1.R1084	Score	638
Exons	149..204, 293..355, 445..698		
GI Descrip.	'1311479/dbj|BAA08304.1|4.0e-97 (D45890) sucrose phosphate synthase [Oryza sativa]'		

Seq. No.	14630	Seq. ID	OJ990427_03.9927.C1
Gene No.	31175	Strand	+
Start	1	End	698
Name	OJ990427_03.9927.C1.o1.gs	Method	GENSCAN
Start	151	End	578
GI	none	Score	.66

Exons	151..204, 293..355, 445..578		
Seq. No.	14630	Seq. ID	OJ990427_03.9927.C1
Gene No.	31175	Strand	+
Start	1	End	698
Name	OJ990427_03.9927.C1.o1.tw	Method	TBLASTX:Wheat
Start	302	End	644
GI	none	Score	77
Exons	302..358, 304..357, 442..639,	453..644	
Seq. No.	14631	Seq. ID	OJ990427_03.9927.C3
Gene No.	31176	Strand	+
Start	352	End	428
Name	OJ990427_03.9927.C3.o1.gp	Method	AAT/GAP
Start	352	End	428
GI	uC-osflM202035d11b1	Score	121
Exons	352..428		
GI Descrip.	'3335341 2.0e-18 (AC004512) T8F5.10 [Arabidopsis thaliana]'		
Seq. No.	14631	Seq. ID	OJ990427_03.9927.C3
Gene No.	31177	Strand	+
Start	356	End	723
Name	OJ990427_03.9927.C3.o1.tm	Method	TBLASTX:Maize
Start	332	End	722
GI	none	Score	206
Exons	332..505, 351..488, 354..518, 549..722, 551..715	355..513, 355..522, 508..720,	
Seq. No.	14631	Seq. ID	OJ990427_03.9927.C3
Gene No.	31177	Strand	+
Start	356	End	723
Name	OJ990427_03.9927.C3.o1.gs	Method	GENSCAN
Start	356	End	710
GI	none	Score	.99
Exons	356..710		
Seq. No.	14631	Seq. ID	OJ990427_03.9927.C3
Gene No.	31177	Strand	+
Start	356	End	723
Name	OJ990427_03.9927.C3.o1.np	Method	AAT/NAP
Start	356	End	723
GI	3335341	Score	326
Exons	356..723		
GI Descrip.	(AC004512) T8F5.10 [Arabidopsis thaliana]		
Seq. No.	14631	Seq. ID	OJ990427_03.9927.C3
Gene No.	31177	Strand	+
Start	356	End	723
Name	OJ990427_03.9927.C3.o2.gp	Method	AAT/GAP
Start	458	End	723
GI	18705_1.R1084	Score	490
Exons	458..723		
GI Descrip.	'3335341 2.0e-38 (AC004512) T8F5.10 [Arabidopsis thaliana]'		
Seq. No.	14631	Seq. ID	OJ990427_03.9927.C3
Gene No.	31177	Strand	+
Start	356	End	723

Name	OJ990427_03.9927.C3.o1.tc	Method	TBLASTX:Cress
Start	546	End	710
GI	none	Score	192
Exons	546..698, 549..710, 551..703		

Seq. No.	14632	Seq. ID	OJ990427_03.9927.C5
Gene No.	31178	Strand	-
Start	929	End	1158
Name	OJ990427_03.9927.C5.o1.gs	Method	GENSCAN
Start	929	End	1158
GI	none	Score	.81
Exons	929..1066, 1102..1158		

Seq. No.	14633	Seq. ID	OJ990427_03.9927.C6
Gene No.	31179	Strand	-
Start	1	End	215
Name	OJ990427_03.9927.C6.o1.np	Method	AAT/NAP
Start	1	End	200
GI	5817301	Score	191
Exons	1..200		
GI Descrip.	(AF087818) auxin transport protein [Arabidopsis thaliana] gi|5902405|gb|AAD55507.1|AC008148_17 (AC008148) auxin transport protein [Arabidopsis thaliana]		

Seq. No.	14633	Seq. ID	OJ990427_03.9927.C6
Gene No.	31179	Strand	-
Start	1	End	215
Name	OJ990427_03.9927.C6.o1.gs	Method	GENSCAN
Start	24	End	200
GI	none	Score	.97
Exons	24..200		

Seq. No.	14633	Seq. ID	OJ990427_03.9927.C6
Gene No.	31179	Strand	-
Start	1	End	215
Name	OJ990427_03.9927.C6.o1.tm	Method	TBLASTX:Maize
Start	34	End	203
GI	none	Score	140
Exons	34..201, 60..203		

Seq. No.	14633	Seq. ID	OJ990427_03.9927.C6
Gene No.	31179	Strand	-
Start	1	End	215
Name	OJ990427_03.9927.C6.o1.ts	Method	TBLASTX:Soybean
Start	81	End	215
GI	none	Score	161
Exons	81..215, 82..210		

Seq. No.	14634	Seq. ID	OJ990427_03.9927.C7
Gene No.	31180	Strand	+
Start	55	End	384
Name	OJ990427_03.9927.C7.o1.gp	Method	AAT/GAP
Start	55	End	384
GI	none	Score	585
Exons	55..384		

Seq. No.	14635	Seq. ID	OJ990427_03.9927.C8

Gene No.	31181	Strand	+
Start	876	End	2332
Name	OJ990427_03.9927.C8.o1.gs	Method	GENSCAN
Start	876	End	2332
GI	none	Score	.67
Exons	876..1005, 1977..2167, 2216..2332		

Seq. No.	14635	Seq. ID	OJ990427_03.9927.C8
Gene No.	31182	Strand	+
Start	3191	End	5396
Name	OJ990427_03.9927.C8.o2.gs	Method	GENSCAN
Start	3191	End	5396
GI	none	Score	.54
Exons	3191..3328, 5145..5396		

Seq. No.	14635	Seq. ID	OJ990427_03.9927.C8
Gene No.	31183	Strand	-
Start	6003	End	7139
Name	OJ990427_03.9927.C8.o3.gs	Method	GENSCAN
Start	6003	End	7139
GI	none	Score	.51
Exons	6003..6020, 7041..7139		

Seq. No.	14636	Seq. ID	OJ990427_03.9927.C9
Gene No.	31184	Strand	+
Start	1	End	183
Name	OJ990427_03.9927.C9.o1.gp	Method	AAT/GAP
Start	1	End	182
GI	uC-osf1M202035d11b1	Score	308
Exons	1..182		
GI Descrip.	'3335341 2.0e-18 (AC004512) T8F5.10 [Arabidopsis thaliana]'		

Seq. No.	14636	Seq. ID	OJ990427_03.9927.C9
Gene No.	31184	Strand	+
Start	1	End	183
Name	OJ990427_03.9927.C9.o1.tm	Method	TBLASTX:Maize
Start	1	End	183
GI	none	Score	258
Exons	1..183, 2..181		

Seq. No.	14636	Seq. ID	OJ990427_03.9927.C9
Gene No.	31184	Strand	+
Start	1	End	183
Name	OJ990427_03.9927.C9.o1.gs	Method	GENSCAN
Start	50	End	180
GI	none	Score	.96
Exons	50..180		

Seq. No.	14637	Seq. ID	OJ990427_03.9927.C10
Gene No.	31185	Strand	+
Start	1	End	2599
Name	OJ990427_03.9927.C10.o1.np	Method	AAT/NAP
Start	1	End	2599
GI	3335341	Score	715
Exons	1..48, 1205..2075, 2540..2599		
GI Descrip.	(AC004512) T8F5.10 [Arabidopsis thaliana]		

Seq. No.	14637	Seq. ID	OJ990427_03.9927.C10
Gene No.	31185	Strand	+
Start	1	End	2599
Name	OJ990427_03.9927.C10.o1.gp	Method	AAT/GAP
Start	1201	End	1277
GI	uC-osflM202035d11b1	Score	118
Exons	1201..1277		
GI Descrip.	'3335341 2.0e-18 (AC004512) T8F5.10 [Arabidopsis thaliana]'		

Seq. No.	14637	Seq. ID	OJ990427_03.9927.C10
Gene No.	31185	Strand	+
Start	1	End	2599
Name	OJ990427_03.9927.C10.o1.gs	Method	GENSCAN
Start	1205	End	2096
GI	none	Score	.98
Exons	1205..2096		

Seq. No.	14637	Seq. ID	OJ990427_03.9927.C10
Gene No.	31185	Strand	+
Start	1	End	2599
Name	OJ990427_03.9927.C10.o2.gp	Method	AAT/GAP
Start	1307	End	1849
GI	18705_1.R1084	Score	1032
Exons	1307..1849		
GI Descrip.	'3335341 2.0e-38 (AC004512) T8F5.10 [Arabidopsis thaliana]'		

Seq. No.	14637	Seq. ID	OJ990427_03.9927.C10
Gene No.	31186	Strand	+
Start	2762	End	3559
Name	OJ990427_03.9927.C10.o2.gs	Method	GENSCAN
Start	2762	End	3559
GI	none	Score	.7
Exons	2762..2832, 3295..3559		

Seq. No.	14637	Seq. ID	OJ990427_03.9927.C10
Gene No.	31187	Strand	-
Start	1949	End	2288
Name	OJ990427_03.9927.C10.o1.tm	Method	TBLASTX:Maize
Start	1181	End	1811
GI	none	Score	206
Exons	1181..1354, 1200..1337, 1203..1367, 1204..1362, 1204..1371, 1353..1772, 1357..1785, 1398..1739, 1688..1789, 1760..1810, 1782..1811		

Seq. No.	14637	Seq. ID	OJ990427_03.9927.C10
Gene No.	31187	Strand	-
Start	1949	End	2288
Name	OJ990427_03.9927.C10.o1.tc	Method	TBLASTX:Cress
Start	1395	End	1739
GI	none	Score	226
Exons	1395..1547, 1398..1601, 1400..1552, 1616..1735, 1617..1739		

Seq. No.	14637	Seq. ID	OJ990427_03.9927.C10
Gene No.	31187	Strand	-
Start	1949	End	2288
Name	OJ990427_03.9927.C10.o1.ts	Method	TBLASTX:Soybean
Start	1530	End	1730

GI	none	Score	254
Exons	1530..1730, 1530..1730		
Seq. No.	14637	Seq. ID	OJ990427_03.9927.C10
Gene No.	31187	Strand	-
Start	1949	End	2288
Name	OJ990427_03.9927.C10.o2.ts	Method	TBLASTX:Soybean
Start	1799	End	2072
GI	none	Score	58
Exons	1799..1870, 1800..1862, 1886..2005, 1887..2015, 2004..2072		
Seq. No.	14637	Seq. ID	OJ990427_03.9927.C10
Gene No.	31187	Strand	-
Start	1949	End	2288
Name	OJ990427_03.9927.C10.o2.tm	Method	TBLASTX:Maize
Start	1812	End	2087
GI	none	Score	69
Exons	1812..1856, 1812..1853, 1820..1996, 1886..2083, 1896..2087		
Seq. No.	14637	Seq. ID	OJ990427_03.9927.C10
Gene No.	31187	Strand	-
Start	1949	End	2288
Name	OJ990427_03.9927.C10.o3.gp	Method	AAT/GAP
Start	1949	End	2288
GI	none	Score	450
Exons	1949..2288		
Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31188	Strand	+
Start	1961	End	3919
Name	OJ990427_03.9927.C11.o2.gs	Method	GENSCAN
Start	1961	End	3919
GI	none	Score	.77
Exons	1961..2503, 2843..3356, 3388..3487, 3814..3919		
Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31188	Strand	+
Start	1961	End	3919
Name	OJ990427_03.9927.C11.o1.np	Method	AAT/NAP
Start	2015	End	3400
GI	1785862	Score	1587
Exons	2015..2503, 2843..3400		
GI Descrip.	(U68756) stearoyl-Acyl-carrier protein desaturase [Elaeis guineensis var. tenera]		
Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31188	Strand	+
Start	1961	End	3919
Name	OJ990427_03.9927.C11.o1.gp	Method	AAT/GAP
Start	2434	End	3697
GI	1926_1.R1084	Score	1785
Exons	2434..2503, 2843..3697		
GI Descrip.	'4929208/gb|AAD33903.1| 7.0e-59 (AF143501) delta-9-stearoyl desaturase [Elaeis guineensis var. tenera]'		
Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31189	Strand	+

Start	6964	End	14103
Name	OJ990427_03.9927.C11.o3.gs	Method	GENSCAN
Start	6964	End	10889
GI	none	Score	.8
Exons	6964..7081, 7867..8100, 8207..8741, 9410..9495, 10600..10889		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31189	Strand	+
Start	6964	End	14103
Name	OJ990427_03.9927.C11.o2.np	Method	AAT/NAP
Start	7903	End	14103
GI	3785972	Score	420
Exons	7903..8100, 8242..8750, 8781..8968, 9729..10002, 10216..10757, 13856..13932, 14040..14103		
GI Descrip.	(AC005560) putative auxin transport protein [Arabidopsis thaliana]		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31190	Strand	+
Start	18159	End	18694
Name	OJ990427_03.9927.C11.o3.gp	Method	AAT/GAP
Start	18159	End	18694
GI	3570_1.R1084	Score	691
Exons	18159..18516, 18668..18694		
GI Descrip.	'3063523/gb|AF052305|AF052305 3.0e-55 Oryza sativa ribulose 1,5-bisphosphate carboxylase small subunit mRNA, complete cds'		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31191	Strand	-
Start	24	End	1024
Name	OJ990427_03.9927.C11.o1.gs	Method	GENSCAN
Start	24	End	1024
GI	none	Score	.6
Exons	24..487, 591..639, 687..836, 974..1024		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o1.tm	Method	TBLASTX:Maize
Start	1939	End	3644
GI	none	Score	807
Exons	1939..2190, 2003..2503, 2006..2503, 2254..2505, 2841..3041, 2842..3474, 2843..3403, 3597..3644		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o1.ts	Method	TBLASTX:Soybean
Start	1939	End	3392
GI	none	Score	138
Exons	1939..2088, 2015..2095, 2015..2101, 2075..2503, 2090..2356, 2092..2505, 2137..2511, 2842..3279, 2843..3391, 2843..3391, 3231..3392		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369

Name	OJ990427_03.9927.C11.o1.tc	Method	TBLASTX:Cress
Start	2014	End	3358
GI	none	Score	76
Exons	2014..2199, 2015..2503, 2015..2350, 2245..2511, 2254..2505, 2842..3219, 2842..3291, 2843..3358, 2843..3349, 3270..3353		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o1.tw	Method	TBLASTX:Wheat
Start	2951	End	3376
GI	none	Score	492
Exons	2951..3313, 2953..3300, 3308..3376		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o4.ts	Method	TBLASTX:Soybean
Start	7888	End	8022
GI	none	Score	199
Exons	7888..8022, 7893..8021		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o4.tm	Method	TBLASTX:Maize
Start	7900	End	8112
GI	none	Score	196
Exons	7900..8112, 7902..8111		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o4.tc	Method	TBLASTX:Cress
Start	8662	End	10769
GI	none	Score	84
Exons	8662..8745, 9408..9506, 10598..10699, 10599..10769		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o4.gs	Method	GENSCAN
Start	13329	End	17419
GI	none	Score	.8
Exons	13329..13461, 14491..14555, 14782..14934, 15009..15164, 15257..15334, 15470..15550, 15631..15698, 15782..15838, 16238..16307, 16403..16472, 16632..16732, 16971..17026, 17162..17219, 17300..17419		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o3.np	Method	AAT/NAP
Start	14767	End	18681
GI	4586259	Score	667
Exons	14767..14934, 15257..15334, 15470..15550, 15631..15698, 15782..15838, 16238..16307, 16403..16472, 16632..16732,		

	16971..17026, 17162..17219, 18581..18681		
GI Descrip.	(AL049640) hydrolase-like protein [Arabidopsis thaliana]		
Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o3.tm	Method	TBLASTX:Maize
Start	15305	End	16493
GI	none	Score	82
Exons	15305..15334, 15464..15556, 15471..15551, 15473..15553, 15481..15579, 15631..15699, 15633..15695, 15656..15700, 15775..15852, 15783..15839, 15784..15846, 16236..16310, 16237..16314, 16239..16310, 16402..16470, 16403..16471, 16403..16474, 16407..16493		
Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o2.gp	Method	AAT/GAP
Start	16258	End	17417
GI	uC-osflm202099c09b1	Score	782
Exons	16258..16307, 16403..16472, 16632..16732, 16971..17026, 17162..17219, 17300..17417		
GI Descrip.	'4586259/emb|CAB41000.1| 2.0e-42 (AL049640) hydrolase-like protein [Arabidopsis thaliana]'		
Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o4.np	Method	AAT/NAP
Start	17438	End	20564
GI	5734733	Score	550
Exons	17438..17575, 18418..18831, 19245..19461, 20522..20564		
GI Descrip.	(AC007259) Hypothetical protein [Arabidopsis thaliana]		
Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o5.gs	Method	GENSCAN
Start	18337	End	21369
GI	none	Score	.84
Exons	18337..18871, 19245..19579, 19941..20204, 20913..21098, 21196..21369		
Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o3.tc	Method	TBLASTX:Cress
Start	18417	End	18686
GI	none	Score	87
Exons	18417..18515, 18571..18684, 18573..18686		
Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o2.ts	Method	TBLASTX:Soybean
Start	18559	End	18815

GI	none	Score	193
Exons	18559..18780, 18561..18815		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o2.tm	Method	TBLASTX:Maize
Start	18573	End	19435
GI	none	Score	210
Exons	18573..18887, 18574..18780, 19244..19306, 19364..19435		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o3.ts	Method	TBLASTX:Soybean
Start	19247	End	19546
GI	none	Score	62
Exons	19247..19300, 19304..19546, 19388..19489, 19422..19499		

Seq. No.	14638	Seq. ID	OJ990427_03.9927.C11
Gene No.	31192	Strand	-
Start	13329	End	21369
Name	OJ990427_03.9927.C11.o2.tc	Method	TBLASTX:Cress
Start	19364	End	20099
GI	none	Score	74
Exons	19364..19564, 19388..19477, 19941..20033, 20049..20099		

Seq. No.	14639	Seq. ID	OJ990427_03.9927.C12
Gene No.	31193	Strand	+
Start	1012	End	1179
Name	OJ990427_03.9927.C12.o1.gs	Method	GENSCAN
Start	1012	End	1179
GI	none	Score	.97
Exons	1012..1179		

Seq. No.	14639	Seq. ID	OJ990427_03.9927.C12
Gene No.	31194	Strand	-
Start	3630	End	15605
Name	OJ990427_03.9927.C12.o2.gs	Method	GENSCAN
Start	3630	End	15605
GI	none	Score	.54
Exons	3630..3734, 4664..4765, 6488..6755, 7081..7163, 7923..8119, 8147..8350, 9061..9162, 10173..10248, 10383..10727, 11022..11137, 12624..12785, 14803..14899, 15468..15605		

Seq. No.	14639	Seq. ID	OJ990427_03.9927.C12
Gene No.	31194	Strand	-
Start	3630	End	15605
Name	OJ990427_03.9927.C12.o1.tc	Method	TBLASTX:Cress
Start	7904	End	8110
GI	none	Score	104
Exons	7904..8110, 7932..8093		

Seq. No.	14639	Seq. ID	OJ990427_03.9927.C12
Gene No.	31194	Strand	-
Start	3630	End	15605
Name	OJ990427_03.9927.C12.o1.ts	Method	TBLASTX:Soybean

Start	7919	End	8110
GI	none	Score	113
Exons	7919..8110, 7929..8096		

Seq. No.	14639	Seq. ID	OJ990427_03.9927.C12
Gene No.	31194	Strand	-
Start	3630	End	15605
Name	OJ990427_03.9927.C12.o1.np	Method	AAT/NAP
Start	7922	End	9470
GI	6642645	Score	161
Exons	7922..8116, 9451..9470		
GI Descrip.	(AC012395) putative RING zinc finger protein [Arabidopsis thaliana]		

Seq. No.	14639	Seq. ID	OJ990427_03.9927.C12
Gene No.	31194	Strand	-
Start	3630	End	15605
Name	OJ990427_03.9927.C12.o1.tm	Method	TBLASTX:Maize
Start	7928	End	8125
GI	none	Score	103
Exons	7928..8125, 7932..8096		

Seq. No.	14639	Seq. ID	OJ990427_03.9927.C12
Gene No.	31194	Strand	-
Start	3630	End	15605
Name	OJ990427_03.9927.C12.o2.np	Method	AAT/NAP
Start	14526	End	15605
GI	6815053	Score	665
Exons	14526..14762, 14812..14958, 15459..15605		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	14640	Seq. ID	OJ990427_03.9927.C13
Gene No.	31195	Strand	+
Start	708	End	1557
Name	OJ990427_03.9927.C13.o1.gs	Method	GENSCAN
Start	708	End	1557
GI	none	Score	.52
Exons	708..833, 923..971, 1010..1036, 1382..1557		

Seq. No.	14641	Seq. ID	OJ990427_03.9927.C14
Gene No.	31196	Strand	+
Start	128	End	303
Name	OJ990427_03.9927.C14.o1.gs	Method	GENSCAN
Start	128	End	303
GI	none	Score	.97
Exons	128..303		

Seq. No.	14641	Seq. ID	OJ990427_03.9927.C14
Gene No.	31197	Strand	+
Start	1394	End	1624
Name	OJ990427_03.9927.C14.o2.gs	Method	GENSCAN
Start	1394	End	1624
GI	none	Score	.96
Exons	1394..1624		

Seq. No.	14641	Seq. ID	OJ990427_03.9927.C14
Gene No.	31198	Strand	-

Start	3409	End	3603
Name	OJ990427_03.9927.C14.o3.gs	Method	GENSCAN
Start	3409	End	3603
GI	none	Score	.79
Exons	3409..3603		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o1.gp	Method	AAT/GAP
Start	408	End	1048
GI	47301_1.R1084	Score	469
Exons	408..471, 584..816, 1024..1048		
GI Descrip.	'1311478/dbj|D45890.1|RICSPS1 1.0e-100 Oryza sativa DNA for sucrose phosphate synthase, complete cds'		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o6.tm	Method	TBLASTX:Maize
Start	653	End	1078
GI	none	Score	84
Exons	653..724, 674..727, 869..1036, 938..1078, 955..1047		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o3.tc	Method	TBLASTX:Cress
Start	665	End	1036
GI	none	Score	80
Exons	665..724, 869..1036, 938..1036		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o1.gs	Method	GENSCAN
Start	677	End	5831
GI	none	Score	.81
Exons	677..996, 1636..1914, 2011..2074, 2207..2899, 3049..3168, 3251..3382, 3695..3871, 3980..4033, 4122..4184, 4274..5209, 5321..5350, 5392..5448, 5496..5831		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o1.np	Method	AAT/NAP
Start	677	End	5828
GI	1311479	Score	5214
Exons	677..1036, 1676..1914, 2011..2074, 2207..2899, 3049..3168, 3251..3382, 3695..3871, 3980..4033, 4122..4184, 4274..5209, 5321..5448, 5543..5828		
GI Descrip.	(D45890) sucrose phosphate synthase [Oryza sativa]		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o2.gp	Method	AAT/GAP

Start	867	End	1895
GI	uC-osf1M202090h03b1	Score	724
Exons	867..1036, 1676..1895		
GI Descrip.	'3915018/sp|Q43802|SPS_ORYSA 4.0e-67 SUCROSE-PHOSPHATE SYNTHASE (UDP-GLUCOSE-FRUCTOSE-PHOSPHATE GLUCOSYLTRANSFERASE) >gi_2117724_pir__JC4783 sucrose-phosphate synthase (EC 2.4.1.14) - rice >gi_988270 (U33175) sucrose phosphate synthase [Oryza sativa]'		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o3.ts	Method	TBLASTX:Soybean
Start	1670	End	2281
GI	none	Score	109
Exons	1670..1807, 1865..1912, 1865..1912, 2008..2076, 2009..2083, 2204..2281, 2206..2277		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o2.tc	Method	TBLASTX:Cress
Start	1844	End	2336
GI	none	Score	50
Exons	1844..1912, 1997..2083, 2001..2084, 2007..2087, 2008..2115, 2203..2334, 2204..2335, 2205..2336		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o2.ts	Method	TBLASTX:Soybean
Start	2288	End	2581
GI	none	Score	51
Exons	2288..2335, 2296..2334, 2383..2580, 2384..2581		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o3.tm	Method	TBLASTX:Maize
Start	2435	End	2692
GI	none	Score	421
Exons	2435..2692, 2438..2647, 2605..2691		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o1.ts	Method	TBLASTX:Soybean
Start	2582	End	5428
GI	none	Score	205
Exons	2582..2728, 2605..2715, 2761..2904, 2762..2896, 3052..3153, 3151..3171, 3248..3379, 3251..3382, 3253..3381, 3694..3870, 3698..3871, 3705..3908, 3977..4033, 3979..4032, 4107..4187, 4121..4186, 4271..4474, 4282..4446, 4733..4786, 4873..5004, 4877..5008, 5330..5428		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+

Start	408	End	8993
Name	OJ990427_03.9927.C15.o4.tm	Method	TBLASTX:Maize
Start	2693	End	2904
GI	none	Score	210
Exons	2693..2902, 2705..2824, 2707..2904		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o4.tw	Method	TBLASTX:Wheat
Start	3151	End	4030
GI	none	Score	35
Exons	3151..3171, 3248..3379, 3249..3377, 3251..3382, 3253..3381, 3694..3867, 3698..3871, 3977..4030		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o2.tm	Method	TBLASTX:Maize
Start	3275	End	4573
GI	none	Score	180
Exons	3275..3382, 3275..3379, 3276..3380, 3277..3381, 3694..3870, 3696..3875, 3698..3871, 3965..4033, 3977..4066, 3979..4035, 4107..4178, 4113..4178, 4121..4186, 4121..4180, 4273..4467, 4274..4489, 4277..4477, 4535..4573		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o1.tc	Method	TBLASTX:Cress
Start	3769	End	4483
GI	none	Score	155
Exons	3769..3870, 3770..3871, 3977..4033, 3979..4032, 4107..4187, 4121..4177, 4271..4387, 4277..4381, 4409..4483		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o3.gp	Method	AAT/GAP
Start	3803	End	4699
GI	45667_1.R1084	Score	1113
Exons	3803..3871, 3980..4033, 4122..4184, 4274..4699		
GI Descrip.	'1311479/dbj|BAA08304.1| 4.0e-97 (D45890) sucrose phosphate synthase [Oryza sativa]'		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o3.tw	Method	TBLASTX:Wheat
Start	4131	End	4468
GI	none	Score	77
Exons	4131..4187, 4133..4186, 4271..4468, 4282..4467		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o5.tm	Method	TBLASTX:Maize

Start	4591	End	4837
GI	none	Score	70
Exons	4591..4668, 4598..4663, 4606..4716, 4714..4833, 4726..4836, 4727..4837		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o4.gp	Method	AAT/GAP
Start	4709	End	6078
GI	11887_1.R1084	Score	2231
Exons	4709..5209, 5321..5448, 5543..6078		
GI Descrip.	'1311479/dbj|BAA08304.1| 1.0e-166 (D45890) sucrose phosphate synthase [Oryza sativa]'		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o1.tm	Method	TBLASTX:Maize
Start	4838	End	5711
GI	none	Score	426
Exons	4838..5119, 4843..5160, 4843..5160, 5089..5211, 5110..5235, 5120..5218, 5318..5449, 5320..5451, 5321..5449, 5362..5451, 5529..5711, 5537..5710		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o1.tw	Method	TBLASTX:Wheat
Start	4900	End	5218
GI	none	Score	340
Exons	4900..5136, 4901..5140, 5110..5217, 5120..5218		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o4.tc	Method	TBLASTX:Cress
Start	5321	End	5669
GI	none	Score	122
Exons	5321..5449, 5541..5669		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o2.tw	Method	TBLASTX:Wheat
Start	5427	End	5844
GI	none	Score	46
Exons	5427..5450, 5529..5819, 5537..5824, 5688..5834, 5692..5835, 5764..5844		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o4.ts	Method	TBLASTX:Soybean
Start	5541	End	5807
GI	none	Score	207
Exons	5541..5807, 5639..5743		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o2.np	Method	AAT/NAP
Start	5781	End	8960
GI	5006859	Score	119
Exons	5781..5857, 7006..7173, 7254..7333, 7450..7591, 8666..8960		
GI Descrip.	(AF145731) homeodomain leucine zipper protein [Oryza sativa]		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o2.gs	Method	GENSCAN
Start	6949	End	7812
GI	none	Score	.77
Exons	6949..7173, 7768..7812		

Seq. No.	14642	Seq. ID	OJ990427_03.9927.C15
Gene No.	31199	Strand	+
Start	408	End	8993
Name	OJ990427_03.9927.C15.o5.gp	Method	AAT/GAP
Start	8548	End	8993
GI	none	Score	851
Exons	8548..8993		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31200	Strand	+
Start	127	End	331
Name	OJ990427_03.9927.C16.o2.gp	Method	AAT/GAP
Start	127	End	331
GI	5607517	Score	373
Exons	127..331		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31201	Strand	+
Start	835	End	1350
Name	OJ990427_03.9927.C16.o1.gs	Method	GENSCAN
Start	835	End	1350
GI	none	Score	.71
Exons	835..903, 1255..1350		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31202	Strand	+
Start	4988	End	6963
Name	OJ990427_03.9927.C16.o3.gs	Method	GENSCAN
Start	4988	End	6963
GI	none	Score	.58
Exons	4988..5086, 5510..5680, 5901..6072, 6677..6963		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31202	Strand	+
Start	4988	End	6963
Name	OJ990427_03.9927.C16.o2.np	Method	AAT/NAP
Start	5373	End	5954
GI	5042454	Score	185
Exons	5373..5549, 5894..5954		

GI Descrip. (AC007789) putative polyprotein [Oryza sativa]

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31203	Strand	-
Start	1	End	97
Name	OJ990427_03.9927.C16.o1.gp	Method	AAT/GAP
Start	1	End	97
GI	none	Score	194
Exons	1..97		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31204	Strand	-
Start	1218	End	4729
Name	OJ990427_03.9927.C16.o1.np	Method	AAT/NAP
Start	1218	End	4729
GI	4836944	Score	1109
Exons	1218..1340, 1455..1550, 1649..1837, 1932..2095, 2402..2502, 2605..2701, 2786..2921, 3425..3692, 3756..4040, 4698..4729		

GI Descrip. (AC006085) Hypothetical protein [Arabidopsis thaliana]

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31204	Strand	-
Start	1218	End	4729
Name	OJ990427_03.9927.C16.o2.gs	Method	GENSCAN
Start	1440	End	4303
GI	none	Score	.94
Exons	1440..1550, 1649..1837, 1932..2095, 2402..2502, 2605..2701, 2786..2921, 3425..4303		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31205	Strand	-
Start	5898	End	7559
Name	OJ990427_03.9927.C16.o3.np	Method	AAT/NAP
Start	5898	End	7559
GI	4538896	Score	184
Exons	5898..5977, 7083..7559		

GI Descrip. (AL049482) putative protein [Arabidopsis thaliana]

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31206	Strand	-
Start	7530	End	7928
Name	OJ990427_03.9927.C16.o4.gs	Method	GENSCAN
Start	7530	End	7928
GI	none	Score	.99
Exons	7530..7928		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31207	Strand	-
Start	8211	End	16104
Name	OJ990427_03.9927.C16.o1.tm	Method	TBLASTX:Maize
Start	1002	End	2489
GI	none	Score	68
Exons	1002..1046, 1009..1050, 1174..1356, 1218..1340, 1455..1550, 1456..1551, 1649..1717, 1650..1838, 1781..1840, 1932..2096, 1936..2097, 2400..2489		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16

Gene No.	31207	Strand	-
Start	8211	End	16104
Name	OJ990427_03.9927.C16.o1.ts	Method	TBLASTX:Soybean
Start	1174	End	2862
GI	none	Score	84
Exons	1174..1341, 1218..1340, 1455..1550, 1456..1551, 1644..1829, 1649..1711, 1932..2096, 1936..2097, 2400..2546, 2401..2544, 2589..2702, 2602..2703, 2604..2702, 2782..2862, 2784..2861		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31207	Strand	-
Start	8211	End	16104
Name	OJ990427_03.9927.C16.o2.tm	Method	TBLASTX:Maize
Start	2602	End	3535
GI	none	Score	80
Exons	2602..2706, 2604..2711, 2787..2912, 2787..2918, 2788..2919, 3408..3533, 3419..3535		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31207	Strand	-
Start	8211	End	16104
Name	OJ990427_03.9927.C16.o2.ts	Method	TBLASTX:Soybean
Start	3437	End	4021
GI	none	Score	103
Exons	3437..3541, 3764..4021, 3783..3899		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31207	Strand	-
Start	8211	End	16104
Name	OJ990427_03.9927.C16.o3.tm	Method	TBLASTX:Maize
Start	3764	End	4051
GI	none	Score	90
Exons	3764..4051, 3783..3896		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31207	Strand	-
Start	8211	End	16104
Name	OJ990427_03.9927.C16.o5.gs	Method	GENSCAN
Start	8211	End	10560
GI	none	Score	.41
Exons	8211..8269, 8456..8496, 8934..9194, 10502..10560		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31207	Strand	-
Start	8211	End	16104
Name	OJ990427_03.9927.C16.o4.np	Method	AAT/NAP
Start	9693	End	15784
GI	6815052	Score	1358
Exons	9693..9722, 12341..12741, 12790..12929, 13712..13804, 14676..14775, 15074..15191, 15475..15549, 15631..15784		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31207	Strand	-
Start	8211	End	16104
Name	OJ990427_03.9927.C16.o6.gs	Method	GENSCAN
Start	11709	End	16104

GI	none	Score	.49
Exons	11709..11827, 12542..12697, 12794..12929, 13500..13585, 15147..15191, 15631..15848, 15926..16104		

Seq. No.	14643	Seq. ID	OJ990427_03.9927.C16
Gene No.	31207	Strand	-
Start	8211	End	16104
Name	OJ990427_03.9927.C16.o1.tw	Method	TBLASTX:Wheat
Start	12987	End	13478
GI	none	Score	67
Exons	12987..13478, 13084..13242		

Seq. No.	14644	Seq. ID	OJ990427_03.9927.C17
Gene No.	31208	Strand	+
Start	1	End	3917
Name	OJ990427_03.9927.C17.o1.np	Method	AAT/NAP
Start	1	End	3917
GI	3319345	Score	644
Exons	1..144, 655..881, 983..1444, 1542..2454, 3339..3434, 3863..3917		
GI Descrip.	(AF077407) contains similarity to maize transposon MuDR (GB:M76978) [Arabidopsis thaliana]		

Seq. No.	14644	Seq. ID	OJ990427_03.9927.C17
Gene No.	31208	Strand	+
Start	1	End	3917
Name	OJ990427_03.9927.C17.o1.gs	Method	GENSCAN
Start	63	End	3451
GI	none	Score	.76
Exons	63..793, 904..1148, 1293..1444, 2713..2841, 3326..3451		

Seq. No.	14644	Seq. ID	OJ990427_03.9927.C17
Gene No.	31208	Strand	+
Start	1	End	3917
Name	OJ990427_03.9927.C17.o3.np	Method	AAT/NAP
Start	3406	End	3495
GI	4680183	Score	119
Exons	3406..3495		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	14644	Seq. ID	OJ990427_03.9927.C17
Gene No.	31209	Strand	-
Start	1312	End	3373
Name	OJ990427_03.9927.C17.o2.np	Method	AAT/NAP
Start	1312	End	3373
GI	6721561	Score	92
Exons	1312..1338, 3299..3373		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14644	Seq. ID	OJ990427_03.9927.C17
Gene No.	31209	Strand	-
Start	1312	End	3373
Name	OJ990427_03.9927.C17.o1.tm	Method	TBLASTX:Maize
Start	1575	End	2173

GI	none	Score	47
Exons	1575..1625, 1652..1993, 1774..1920, 2069..2173		

Seq. No.	14644	Seq. ID	OJ990427_03.9927.C17
Gene No.	31209	Strand	-
Start	1312	End	3373
Name	OJ990427_03.9927.C17.o1.ts	Method	TBLASTX:Soybean
Start	1826	End	2221
GI	none	Score	194
Exons	1826..2221		

Seq. No.	14644	Seq. ID	OJ990427_03.9927.C17
Gene No.	31209	Strand	-
Start	1312	End	3373
Name	OJ990427_03.9927.C17.o2.tm	Method	TBLASTX:Maize
Start	2222	End	2426
GI	none	Score	185
Exons	2222..2326, 2223..2426, 2301..2351		

Seq. No.	14644	Seq. ID	OJ990427_03.9927.C17
Gene No.	31209	Strand	-
Start	1312	End	3373
Name	OJ990427_03.9927.C17.o1.gp	Method	AAT/GAP
Start	3117	End	3214
GI	uC-osflcyp088b12b1	Score	128
Exons	3117..3214		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	14645	Seq. ID	OJ990427_03.9927.C18
Gene No.	31210	Strand	+
Start	1	End	282
Name	OJ990427_03.9927.C18.o1.np	Method	AAT/NAP
Start	1	End	282
GI	6815109	Score	142
Exons	1..282		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	14645	Seq. ID	OJ990427_03.9927.C18
Gene No.	31211	Strand	-
Start	111	End	236
Name	OJ990427_03.9927.C18.o1.gs	Method	GENSCAN
Start	111	End	236
GI	none	Score	.76
Exons	111..236		

Seq. No.	14646	Seq. ID	OJ990427_03.9927.C20
Gene No.	31212	Strand	+
Start	1	End	654
Name	OJ990427_03.9927.C20.o1.np	Method	AAT/NAP
Start	1	End	654
GI	533082	Score	623
Exons	1..428, 580..654		
GI Descrip.	(U07552) delta-9 stearoyl-acyl carrier protein desaturase [Thunbergia alata]		

Seq. No.	14646	Seq. ID	OJ990427_03.9927.C20

Gene No.	31212	Strand	+
Start	1	End	654
Name	OJ990427_03.9927.C20.o1.gp	Method	AAT/GAP
Start	39	End	401
GI	10681_1.R1084	Score	670
Exons	39..401		
GI Descrip.	'5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	14646	Seq. ID	OJ990427_03.9927.C20
Gene No.	31212	Strand	+
Start	1	End	654
Name	OJ990427_03.9927.C20.o1.tm	Method	TBLASTX:Maize
Start	39	End	433
GI	none	Score	614
Exons	39..428, 39..428, 41..433, 179..430		

Seq. No.	14646	Seq. ID	OJ990427_03.9927.C20
Gene No.	31212	Strand	+
Start	1	End	654
Name	OJ990427_03.9927.C20.o1.ts	Method	TBLASTX:Soybean
Start	41	End	436
GI	none	Score	564
Exons	41..430, 42..428, 62..436		

Seq. No.	14646	Seq. ID	OJ990427_03.9927.C20
Gene No.	31212	Strand	+
Start	1	End	654
Name	OJ990427_03.9927.C20.o1.tc	Method	TBLASTX:Cress
Start	42	End	436
GI	none	Score	552
Exons	42..428, 42..275, 169..429, 170..436, 179..430		

Seq. No.	14647	Seq. ID	OJ990427_03.9927.C24
Gene No.	31213	Strand	-
Start	210	End	403
Name	OJ990427_03.9927.C24.o1.gs	Method	GENSCAN
Start	210	End	403
GI	none	Score	.54
Exons	210..403		

Seq. No.	14648	Seq. ID	OJ990427_03.9927.C27
Gene No.	31214	Strand	-
Start	462	End	1102
Name	OJ990427_03.9927.C27.o1.gs	Method	GENSCAN
Start	462	End	1102
GI	none	Score	.54
Exons	462..559, 997..1102		

Seq. No.	14649	Seq. ID	OJ990427_03.9927.C29
Gene No.	31215	Strand	-
Start	943	End	1364
Name	OJ990427_03.9927.C29.o1.gs	Method	GENSCAN
Start	943	End	1364
GI	none	Score	.8
Exons	943..1089, 1176..1220, 1239..1364		

Seq. No.	14650	Seq. ID	OJ990427_03.9927.C30
Gene No.	31216	Strand	+
Start	129	End	4901
Name	OJ990427_03.9927.C30.o1.gs	Method	GENSCAN
Start	129	End	4901
GI	none	Score	.71
Exons	129..401, 1225..1281, 1481..2128, 2228..2315, 3138..3286, 4096..4382, 4625..4901		

Seq. No.	14650	Seq. ID	OJ990427_03.9927.C30
Gene No.	31216	Strand	+
Start	129	End	4901
Name	OJ990427_03.9927.C30.o1.tm	Method	TBLASTX:Maize
Start	1215	End	2344
GI	none	Score	61
Exons	1215..1280, 1222..1284, 1361..1402, 1364..1402, 1465..1806, 1472..1825, 1481..1813, 1778..2128, 1806..2129, 1807..2133, 1807..2127, 2225..2344, 2227..2343		

Seq. No.	14650	Seq. ID	OJ990427_03.9927.C30
Gene No.	31216	Strand	+
Start	129	End	4901
Name	OJ990427_03.9927.C30.o1.gp	Method	AAT/GAP
Start	2443	End	3038
GI	none	Score	940
Exons	2443..3038		

Seq. No.	14651	Seq. ID	OJ990427_03.9927.C31
Gene No.	31217	Strand	+
Start	204	End	392
Name	OJ990427_03.9927.C31.o1.gs	Method	GENSCAN
Start	204	End	392
GI	none	Score	.49
Exons	204..392		

Seq. No.	14651	Seq. ID	OJ990427_03.9927.C31
Gene No.	31218	Strand	+
Start	3074	End	4670
Name	OJ990427_03.9927.C31.o1.gp	Method	AAT/GAP
Start	2967	End	4670
GI	326_1.R1084	Score	661
Exons	2967..3157, 4386..4535, 4634..4670		
GI Descrip.	'2501449/sp|P55857|SMT3_ORYSA 3.0e-51 UBIQUITIN-LIKE PROTEIN SMT3 >gi_1668773_emb_CAA67922_ (X99608) ubiquitin-like protein [Oryza sativa]'		

Seq. No.	14651	Seq. ID	OJ990427_03.9927.C31
Gene No.	31218	Strand	+
Start	3074	End	4670
Name	OJ990427_03.9927.C31.o2.np	Method	AAT/NAP
Start	3074	End	4670
GI	2501449	Score	401
Exons	3074..3157, 4386..4535, 4634..4670		
GI Descrip.	UBIQUITIN-LIKE PROTEIN SMT3 gi|1668773|emb|CAA67922| (X99608) ubiquitin-like protein [Oryza sativa]		

Seq. No.	14651	Seq. ID	OJ990427_03.9927.C31

Gene No.	31218	Strand	+
Start	3074	End	4670
Name	OJ990427_03.9927.C31.o3.gs	Method	GENSCAN
Start	3074	End	4535
GI	none	Score	.91
Exons	3074..3157, 4386..4535		

Seq. No.	14651	Seq. ID	OJ990427_03.9927.C31
Gene No.	31219	Strand	-
Start	1	End	2355
Name	OJ990427_03.9927.C31.o1.np	Method	AAT/NAP
Start	1	End	1532
GI	6642650	Score	123
Exons	1..141, 1184..1532		
GI Descrip.	(AC012395) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14651	Seq. ID	OJ990427_03.9927.C31
Gene No.	31219	Strand	-
Start	1	End	2355
Name	OJ990427_03.9927.C31.o2.gs	Method	GENSCAN
Start	851	End	2355
GI	none	Score	.57
Exons	851..874, 1116..1721, 2248..2355		

Seq. No.	14651	Seq. ID	OJ990427_03.9927.C31
Gene No.	31220	Strand	
Start	3070	End	4670
Name	OJ990427_03.9927.C31.o1.tw	Method	TBLASTX:Wheat
Start	3070	End	4670
GI	none	Score	83
Exons	3070..3159, 3092..3157, 4383..4535, 4385..4543, 4386..4538, 4626..4670, 4631..4669		

Seq. No.	14651	Seq. ID	OJ990427_03.9927.C31
Gene No.	31220	Strand	
Start	3070	End	4670
Name	OJ990427_03.9927.C31.o1.tc	Method	TBLASTX:Cress
Start	3073	End	4669
GI	none	Score	38
Exons	3073..3114, 3089..3115, 3121..3159, 3122..3157, 4383..4535, 4385..4543, 4386..4538, 4631..4669		

Seq. No.	14651	Seq. ID	OJ990427_03.9927.C31
Gene No.	31220	Strand	
Start	3070	End	4670
Name	OJ990427_03.9927.C31.o1.tm	Method	TBLASTX:Maize
Start	3073	End	4670
GI	none	Score	47
Exons	3073..3114, 3086..3115, 3121..3159, 3122..3157, 4383..4535, 4385..4543, 4386..4538, 4626..4670, 4631..4669		

Seq. No.	14651	Seq. ID	OJ990427_03.9927.C31
Gene No.	31220	Strand	
Start	3070	End	4670
Name	OJ990427_03.9927.C31.o1.ts	Method	TBLASTX:Soybean
Start	4383	End	4669
GI	none	Score	247

Exons	4383..4535, 4385..4543, 4386..4538, 4631..4669, 4631..4669		
Seq. No.	14652	Seq. ID	OJ990427_03.9927.C34
Gene No.	31221	Strand	+
Start	128	End	412
Name	OJ990427_03.9927.C34.o1.gp	Method	AAT/GAP
Start	128	End	412
GI	1926_1.R1084	Score	541
Exons	128..412		
GI Descrip.	'4929208/gb|AAD33903.1| 7.0e-59 (AF143501) delta-9-stearoyl desaturase [Elaeis guineensis var. tenera]'		
Seq. No.	14653	Seq. ID	OJ990427_03.9927.C37
Gene No.	31222	Strand	+
Start	462	End	629
Name	OJ990427_03.9927.C37.o1.gs	Method	GENSCAN
Start	462	End	629
GI	none	Score	.81
Exons	462..629		
Seq. No.	14654	Seq. ID	OJ990427_03.9927.C41
Gene No.	31223	Strand	+
Start	328	End	481
Name	OJ990427_03.9927.C41.o1.gp	Method	AAT/GAP
Start	328	End	481
GI	none	Score	275
Exons	328..481		
Seq. No.	14654	Seq. ID	OJ990427_03.9927.C41
Gene No.	31224	Strand	-
Start	347	End	459
Name	OJ990427_03.9927.C41.o1.gs	Method	GENSCAN
Start	347	End	459
GI	none	Score	.85
Exons	347..459		
Seq. No.	14655	Seq. ID	OJ990427_03.9927.C42
Gene No.	31225	Strand	-
Start	186	End	688
Name	OJ990427_03.9927.C42.o1.gs	Method	GENSCAN
Start	186	End	526
GI	none	Score	.66
Exons	186..526		
Seq. No.	14655	Seq. ID	OJ990427_03.9927.C42
Gene No.	31225	Strand	-
Start	186	End	688
Name	OJ990427_03.9927.C42.o1.np	Method	AAT/NAP
Start	186	End	688
GI	4850384	Score	286
Exons	186..688		
GI Descrip.	(AC007357) F3F19.3 [Arabidopsis thaliana]		
Seq. No.	14655	Seq. ID	OJ990427_03.9927.C42
Gene No.	31225	Strand	-
Start	186	End	688
Name	OJ990427_03.9927.C42.o1.ts	Method	TBLASTX:Soybean

Start	188	End	487
GI	none	Score	80
Exons	188..241, 245..487, 363..428		

Seq. No.	14655	Seq. ID	OJ990427_03.9927.C42
Gene No.	31225	Strand	-
Start	186	End	688
Name	OJ990427_03.9927.C42.o1.tm	Method	TBLASTX:Maize
Start	206	End	499
GI	none	Score	149
Exons	206..448, 207..446, 357..455,	466..498, 467..499	

Seq. No.	14655	Seq. ID	OJ990427_03.9927.C42
Gene No.	31225	Strand	-
Start	186	End	688
Name	OJ990427_03.9927.C42.o1.tc	Method	TBLASTX:Cress
Start	305	End	505
GI	none	Score	60
Exons	305..505, 366..413		

Seq. No.	14656	Seq. ID	OJ990427_03.9927.C43
Gene No.	31226	Strand	-
Start	1184	End	1332
Name	OJ990427_03.9927.C43.o1.gs	Method	GENSCAN
Start	1184	End	1332
GI	none	Score	.76
Exons	1184..1332		

Seq. No.	14657	Seq. ID	OJ990427_03.9927.C44
Gene No.	31227	Strand	-
Start	416	End	601
Name	OJ990427_03.9927.C44.o1.gs	Method	GENSCAN
Start	416	End	601
GI	none	Score	.82
Exons	416..601		

Seq. No.	14658	Seq. ID	OJ990427_03.9927.C46
Gene No.	31228	Strand	+
Start	202	End	2467
Name	OJ990427_03.9927.C46.o1.gp	Method	AAT/GAP
Start	202	End	2467
GI	4984_1.R1084	Score	1886
Exons	202..459, 1185..1265, 1783..2467		
GI Descrip.	'6091726/gb|AAF03438.1|AC010797_14 2.0e-12 (AC010797) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	14658	Seq. ID	OJ990427_03.9927.C46
Gene No.	31228	Strand	+
Start	202	End	2467
Name	OJ990427_03.9927.C46.o1.gs	Method	GENSCAN
Start	270	End	2207
GI	none	Score	.96
Exons	270..459, 1185..1265, 1783..2207		

Seq. No.	14658	Seq. ID	OJ990427_03.9927.C46
Gene No.	31228	Strand	+
Start	202	End	2467

Name	OJ990427_03.9927.C46.o1.np	Method	AAT/NAP
Start	1196	End	2217
GI	6091726	Score	120
Exons	1196..1265, 1783..2217		
GI Descrip.	(AC010797) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14658	Seq. ID	OJ990427_03.9927.C46
Gene No.	31229	Strand	-
Start	3424	End	3627
Name	OJ990427_03.9927.C46.o1.tm	Method	TBLASTX:Maize
Start	1232	End	2216
GI	none	Score	65
Exons	1232..1264, 1771..1854, 1781..1864, 1782..1862, 1863..1967, 1873..1992, 1873..1965, 1874..1969, 2014..2058, 2036..2170, 2088..2168, 2121..2216, 2151..2207		

Seq. No.	14658	Seq. ID	OJ990427_03.9927.C46
Gene No.	31229	Strand	-
Start	3424	End	3627
Name	OJ990427_03.9927.C46.o2.gp	Method	AAT/GAP
Start	3307	End	3627
GI	none	Score	608
Exons	3307..3627		

Seq. No.	14658	Seq. ID	OJ990427_03.9927.C46
Gene No.	31229	Strand	-
Start	3424	End	3627
Name	OJ990427_03.9927.C46.o2.gs	Method	GENSCAN
Start	3424	End	3540
GI	none	Score	.84
Exons	3424..3540		

Seq. No.	14659	Seq. ID	OJ990427_02.9924.C1
Gene No.	31230	Strand	+
Start	1	End	287
Name	OJ990427_02.9924.C1.o1.np	Method	AAT/NAP
Start	1	End	287
GI	4850401	Score	222
Exons	1..287		
GI Descrip.	(AC007357) Strong similarity to gb|U29610 Actin-like protein (Arp3) from Acanthamoeba castellanii and is a member of the PF|00022 Actin family. [Arabidopsis thaliana]		

Seq. No.	14659	Seq. ID	OJ990427_02.9924.C1
Gene No.	31230	Strand	+
Start	1	End	287
Name	OJ990427_02.9924.C1.o1.tm	Method	TBLASTX:Maize
Start	42	End	243
GI	none	Score	167
Exons	42..242, 42..242, 43..243		

Seq. No.	14659	Seq. ID	OJ990427_02.9924.C1
Gene No.	31230	Strand	+
Start	1	End	287
Name	OJ990427_02.9924.C1.o1.ts	Method	TBLASTX:Soybean
Start	43	End	279
GI	none	Score	264

Exons	43..279, 45..236		
Seq. No.	14659	Seq. ID	OJ990427_02.9924.C1
Gene No.	31230	Strand	+
Start	1	End	287
Name	OJ990427_02.9924.C1.o1.gs	Method	GENSCAN
Start	101	End	276
GI	none	Score	.67
Exons	101..276		
Seq. No.	14660	Seq. ID	OJ990427_02.9924.C7
Gene No.	31231	Strand	-
Start	1	End	411
Name	OJ990427_02.9924.C7.o1.gp	Method	AAT/GAP
Start	1	End	411
GI	851_1.R1084	Score	810
Exons	1..411		
GI Descrip.	'4096173 2.0e-93 (U25968) early embryogenesis protein [Oryza sativa]'		
Seq. No.	14660	Seq. ID	OJ990427_02.9924.C7
Gene No.	31231	Strand	-
Start	1	End	411
Name	OJ990427_02.9924.C7.o1.np	Method	AAT/NAP
Start	160	End	411
GI	4096173	Score	392
Exons	160..411		
GI Descrip.	(U25968) early embryogenesis protein [Oryza sativa]		
Seq. No.	14661	Seq. ID	OJ990427_02.9924.C8
Gene No.	31232	Strand	+
Start	254	End	550
Name	OJ990427_02.9924.C8.o1.gp	Method	AAT/GAP
Start	254	End	550
GI	none	Score	547
Exons	254..550		
Seq. No.	14662	Seq. ID	OJ990427_02.9924.C9
Gene No.	31233	Strand	+
Start	253	End	671
Name	OJ990427_02.9924.C9.o1.gs	Method	GENSCAN
Start	253	End	671
GI	none	Score	.67
Exons	253..316, 512..595, 646..671		
Seq. No.	14663	Seq. ID	OJ990427_02.9924.C11
Gene No.	31234	Strand	+
Start	1	End	368
Name	OJ990427_02.9924.C11.o1.gp	Method	AAT/GAP
Start	1	End	368
GI	1140_1.R1084	Score	708
Exons	1..368		
GI Descrip.	'1495768/emb|CAA92823| 2.0e-36 (Z68506) chloroplast inner envelope protein, 110 kD (IEP110) [Pisum sativum]'		
Seq. No.	14663	Seq. ID	OJ990427_02.9924.C11
Gene No.	31234	Strand	+

Start	1	End	368
Name	OJ990427_02.9924.C11.o1.gs	Method	GENSCAN
Start	102	End	257
GI	none	Score	.86
Exons	102..257		

Seq. No.	14664	Seq. ID	OJ990427_02.9924.C13
Gene No.	31235	Strand	-
Start	159	End	252
Name	OJ990427_02.9924.C13.o1.gs	Method	GENSCAN
Start	159	End	252
GI	none	Score	.84
Exons	159..252		

Seq. No.	14665	Seq. ID	OJ990427_02.9924.C14
Gene No.	31236	Strand	-
Start	253	End	418
Name	OJ990427_02.9924.C14.o1.gs	Method	GENSCAN
Start	253	End	418
GI	none	Score	.41
Exons	253..418		

Seq. No.	14666	Seq. ID	OJ990427_02.9924.C15
Gene No.	31237	Strand	+
Start	33	End	381
Name	OJ990427_02.9924.C15.o1.gs	Method	GENSCAN
Start	33	End	381
GI	none	Score	.71
Exons	33..209, 355..381		

Seq. No.	14667	Seq. ID	OJ990427_02.9924.C16
Gene No.	31238	Strand	+
Start	126	End	415
Name	OJ990427_02.9924.C16.o1.gs	Method	GENSCAN
Start	126	End	415
GI	none	Score	.97
Exons	126..415		

Seq. No.	14668	Seq. ID	OJ990427_02.9924.C18
Gene No.	31239	Strand	-
Start	72	End	218
Name	OJ990427_02.9924.C18.o1.gs	Method	GENSCAN
Start	72	End	218
GI	none	Score	.52
Exons	72..218		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31240	Strand	+
Start	46	End	4619
Name	OJ990427_02.9924.C19.o1.gp	Method	AAT/GAP
Start	46	End	1684
GI	292_3.R1084	Score	2516
Exons	46..347, 463..639, 747..912, 1000..1684		
GI Descrip.	'585662/sp|P37835|PER2_ORYSA 1.0e-154 PEROXIDASE PRECURSOR >gi_303851_dbj_BAA03911_ (D16442) peroxidase [Oryza sativa]'		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19

Gene No.	31240	Strand	+
Start	46	End	4619
Name	OJ990427_02.9924.C19.o1.gs	Method	GENSCAN
Start	138	End	4619
GI	none	Score	.45
Exons	138..314, 463..639, 747..912, 1000..1382, 1422..1536, 2417..2628, 2875..2955, 3108..3163, 3879..3928, 4314..4404, 4508..4619		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31240	Strand	+
Start	46	End	4619
Name	OJ990427_02.9924.C19.o1.np	Method	AAT/NAP
Start	138	End	1388
GI	585662	Score	1489
Exons	138..347, 463..639, 747..912, 1000..1388		
GI Descrip.	PEROXIDASE PRECURSOR gi|303851|dbj|BAA03911| (D16442) peroxidase [Oryza sativa]		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31241	Strand	+
Start	5861	End	9428
Name	OJ990427_02.9924.C19.o2.gp	Method	AAT/GAP
Start	5794	End	7548
GI	292_1.R1084	Score	2540
Exons	5794..6067, 6222..6395, 6497..6665, 6780..7548		
GI Descrip.	'2429290 1.0e-156 (AF014469) peroxidase [Oryza sativa]'		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31241	Strand	+
Start	5861	End	9428
Name	OJ990427_02.9924.C19.o2.gs	Method	GENSCAN
Start	5861	End	9428
GI	none	Score	.84
Exons	5861..6071, 6121..6161, 6222..6503, 6566..6665, 6780..7170, 7203..7282, 7724..7801, 8964..9062, 9397..9428		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31241	Strand	+
Start	5861	End	9428
Name	OJ990427_02.9924.C19.o2.np	Method	AAT/NAP
Start	5861	End	7171
GI	2429290	Score	1480
Exons	5861..6067, 6222..6395, 6497..6665, 6780..7171		
GI Descrip.	(AF014469) peroxidase [Oryza sativa]		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31242	Strand	+
Start	10174	End	11720
Name	OJ990427_02.9924.C19.o3.np	Method	AAT/NAP
Start	10171	End	11717
GI	82613	Score	1159
Exons	10171..10377, 10632..10808, 11095..11260, 11332..11717		
GI Descrip.	peroxidase (EC 1.11.1.7) precursor, pathogen-induced - wheat gi|21829|emb|CAA39486| (X56011) peroxidase [Triticum aestivum]		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19

Gene No.	31242	Strand	+
Start	10174	End	11720
Name	OJ990427_02.9924.C19.o3.gs	Method	GENSCAN
Start	10174	End	11720
GI	none	Score	.9
Exons	10174..10311, 10632..10808, 11095..11260, 11332..11720		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31243	Strand	+
Start	20523	End	21713
Name	OJ990427_02.9924.C19.o5.gs	Method	GENSCAN
Start	20523	End	21691
GI	none	Score	.81
Exons	20523..20693, 20920..21691		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31243	Strand	+
Start	20523	End	21713
Name	OJ990427_02.9924.C19.o6.np	Method	AAT/NAP
Start	20564	End	21713
GI	2651308	Score	204
Exons	20564..20642, 20812..21067, 21107..21397, 21466..21713		
GI Descrip.	(AC002336) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31244	Strand	-
Start	12481	End	16488
Name	OJ990427_02.9924.C19.o1.ts	Method	TBLASTX:Soybean
Start	149	End	14162
GI	none	Score	151
Exons	149..343, 222..347, 496..609, 747..845, 749..820, 825..920, 840..905, 993..1403, 998..1411, 5887..6063, 5927..6067, 6219..6245, 6248..6391, 6249..6392, 6497..6673, 6499..6669, 6776..7168, 6786..6848, 6895..6999, 10252..10377, 10266..10373, 10626..10655, 10665..10778, 10673..10804, 11095..11181, 11173..11262, 11325..11450, 11406..11714, 12487..12627, 12814..12966, 12955..13044, 13732..13782, 13733..13783, 13780..13929, 13781..13924, 14028..14162, 14029..14151		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31244	Strand	-
Start	12481	End	16488
Name	OJ990427_02.9924.C19.o1.tm	Method	TBLASTX:Maize
Start	176	End	14165
GI	none	Score	112
Exons	176..307, 206..283, 288..347, 296..346, 457..489, 529..609, 746..886, 747..857, 783..932, 818..931, 989..1105, 993..1154, 998..1120, 1119..1388, 1121..1387, 5896..6003, 5908..6024, 5957..6010, 6011..6067, 6011..6067, 6027..6068, 6219..6245, 6285..6398, 6293..6397, 6464..6550, 6496..6546, 6568..6678, 6572..6679, 6776..6901, 6893..7171, 6900..7004, 6986..7171, 7090..7176, 10206..10289, 10252..10314, 10266..10313, 10318..10377, 10326..10376, 10626..10658, 10656..10778, 10709..10822, 11094..11180, 11095..11181, 11159..11260, 11163..11261, 11167..11262, 11294..11479, 11325..11450, 11330..11479, 11441..11716, 11445..11717, 12381..12482, 12487..12573, 12487..12627, 12649..12705, 12814..13008,		

13726..13797, 13727..13783, 13780..13842, 13894..13926,
14016..14081, 14028..14081, 14088..14165

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31244	Strand	-
Start	12481	End	16488
Name	OJ990427_02.9924.C19.o3.tw	Method	TBLASTX:Wheat
Start	221	End	14169
GI	none	Score	113
Exons	221..343, 222..347, 457..504, 523..609, 5941..6063, 5942..6067, 5957..6064, 6227..6388, 6255..6389, 10252..10377, 10266..10373, 10626..10667, 10692..10778, 10709..10801, 13735..13779, 13742..13780, 13780..13854, 13813..13845, 13855..13929, 13856..13924, 14026..14169, 14028..14168		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31244	Strand	-
Start	12481	End	16488
Name	OJ990427_02.9924.C19.o1.tc	Method	TBLASTX:Cress
Start	222	End	14162
GI	none	Score	118
Exons	222..347, 239..346, 457..525, 496..609, 723..920, 993..1076, 998..1036, 1065..1235, 1094..1228, 1232..1336, 1315..1332, 5930..6067, 6228..6398, 6496..6549, 6497..6553, 6533..6679, 6631..6678, 6778..6807, 6779..6856, 6845..7021, 7094..7114, 10252..10377, 10626..10667, 10665..10781, 11094..11177, 11095..11262, 11330..11389, 11331..11408, 11447..11554, 11448..11567, 12472..12522, 12541..12702, 12820..13044, 13723..13782, 13726..13782, 13780..13929, 13814..13924, 14028..14162, 14029..14160		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31244	Strand	-
Start	12481	End	16488
Name	OJ990427_02.9924.C19.o1.tw	Method	TBLASTX:Wheat
Start	749	End	13042
GI	none	Score	194
Exons	749..913, 750..914, 971..1129, 993..1121, 1115..1243, 1116..1247, 6499..6549, 6500..6559, 6533..6679, 6550..6678, 6776..6901, 6778..6909, 6896..7027, 11097..11261, 11098..11262, 11325..11453, 11337..11453, 11451..11573, 12814..13041, 12863..13042		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31244	Strand	-
Start	12481	End	16488
Name	OJ990427_02.9924.C19.o3.gp	Method	AAT/GAP
Start	12317	End	12823
GI	uC-osrocyp036g09b1	Score	977
Exons	12317..12823		
GI Descrip.	'5453379/gb|AAD43561.1|AF155124_1 7.0e-19 (AF155124) bacterial-induced peroxidase precursor [Gossypium hirsutum]'		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31244	Strand	-
Start	12481	End	16488
Name	OJ990427_02.9924.C19.o4.gs	Method	GENSCAN

Start	12481	End	16488
GI	none	Score	.8
Exons	12481..13044, 13729..13923, 14025..14273, 15567..15811, 16485..16488		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31244	Strand	-
Start	12481	End	16488
Name	OJ990427_02.9924.C19.o4.np	Method	AAT/NAP
Start	12487	End	14246
GI	571484	Score	797
Exons	12487..13033, 13712..13923, 14025..14246		
GI Descrip.	(U16727) peroxidase precursor [Medicago truncatula]		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31244	Strand	-
Start	12481	End	16488
Name	OJ990427_02.9924.C19.o4.gp	Method	AAT/GAP
Start	13003	End	14291
GI	uC-osroM202006b09b1	Score	920
Exons	13003..13044, 13729..13923, 14025..14291		
GI Descrip.	'571484 1.0e-39 (U16727) peroxidase precursor [Medicago truncatula]'		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31244	Strand	-
Start	12481	End	16488
Name	OJ990427_02.9924.C19.o5.np	Method	AAT/NAP
Start	14045	End	16273
GI	2979555	Score	190
Exons	14045..14073, 15609..15948, 16222..16273		
GI Descrip.	(AC003680) unknown protein [Arabidopsis thaliana]		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31245	Strand	
Start	20579	End	21324
Name	OJ990427_02.9924.C19.o3.tm	Method	TBLASTX:Maize
Start	20579	End	21324
GI	none	Score	95
Exons	20579..20641, 20580..20642, 20941..21147, 21192..21323, 21193..21324		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31246	Strand	
Start	21319	End	21713
Name	OJ990427_02.9924.C19.o2.tw	Method	TBLASTX:Wheat
Start	21319	End	21713
GI	none	Score	184
Exons	21319..21564, 21325..21444, 21435..21575, 21514..21600, 21536..21661, 21590..21706, 21590..21706, 21667..21711, 21672..21713		

Seq. No.	14669	Seq. ID	OJ990427_02.9924.C19
Gene No.	31246	Strand	
Start	21319	End	21713
Name	OJ990427_02.9924.C19.o2.tm	Method	TBLASTX:Maize
Start	21331	End	21663

GI	none	Score	262
Exons	21331..21585, 21438..21584, 21456..21605, 21494..21652, 21502..21663		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31247	Strand	+
Start	1	End	830
Name	OJ990427_02.9924.C20.o1.np	Method	AAT/NAP
Start	1	End	818
GI	2739382	Score	255
Exons	1..628, 711..818		
GI Descrip.	(AC002505) unknown protein [Arabidopsis thaliana]		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31247	Strand	+
Start	1	End	830
Name	OJ990427_02.9924.C20.o1.gs	Method	GENSCAN
Start	48	End	830
GI	none	Score	.91
Exons	48..830		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31248	Strand	+
Start	1632	End	4093
Name	OJ990427_02.9924.C20.o2.gs	Method	GENSCAN
Start	1632	End	4093
GI	none	Score	.65
Exons	1632..1634, 1732..1977, 3568..3708, 3896..4093		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31249	Strand	+
Start	4432	End	12691
Name	OJ990427_02.9924.C20.o3.gs	Method	GENSCAN
Start	4432	End	12431
GI	none	Score	.7
Exons	4432..4486, 4865..5403, 5761..5945, 6074..6485, 7797..7864, 9115..9239, 9310..9351, 10882..12431		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31249	Strand	+
Start	4432	End	12691
Name	OJ990427_02.9924.C20.o1.gp	Method	AAT/GAP
Start	10952	End	11556
GI	42834_1.R1084	Score	1132
Exons	10952..11556		
GI Descrip.	'3395423 3.0e-09 (AC004683) putative protein kinase [Arabidopsis thaliana] >gi_3786023 (AC005499) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31249	Strand	+
Start	4432	End	12691
Name	OJ990427_02.9924.C20.o3.np	Method	AAT/NAP
Start	11121	End	12691
GI	2347199	Score	788
Exons	11121..11294, 11328..12350, 12583..12691		
GI Descrip.	(AC002338) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31250	Strand	-
Start	5629	End	7080
Name	OJ990427_02.9924.C20.o2.np	Method	AAT/NAP
Start	5629	End	7080
GI	6069646	Score	1201
Exons	5629..6615, 6899..7080		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31251	Strand	-
Start	12030	End	12658
Name	OJ990427_02.9924.C20.o2.gp	Method	AAT/GAP
Start	12030	End	12658
GI	none	Score	1221
Exons	12030..12658		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31252	Strand	-
Start	13510	End	18092
Name	OJ990427_02.9924.C20.o2.tm	Method	TBLASTX:Maize
Start	542	End	831
GI	none	Score	334
Exons	542..811, 543..824, 544..831		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31252	Strand	-
Start	13510	End	18092
Name	OJ990427_02.9924.C20.o3.tw	Method	TBLASTX:Wheat
Start	594	End	967
GI	none	Score	94
Exons	594..680, 595..648, 608..658, 654..734, 678..719, 696..794, 706..795, 716..811, 717..821, 815..967, 900..920		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31252	Strand	-
Start	13510	End	18092
Name	OJ990427_02.9924.C20.o3.tm	Method	TBLASTX:Maize
Start	6678	End	7084
GI	none	Score	150
Exons	6678..6737, 6742..6882, 6881..7084		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31252	Strand	-
Start	13510	End	18092
Name	OJ990427_02.9924.C20.o1.tc	Method	TBLASTX:Cress
Start	11229	End	12164
GI	none	Score	54
Exons	11229..11300, 11355..11483, 11355..11480, 11468..11668, 11493..11669, 11676..11981, 11684..11977, 12057..12164, 12086..12157		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31252	Strand	-
Start	13510	End	18092
Name	OJ990427_02.9924.C20.o1.tm	Method	TBLASTX:Maize
Start	11229	End	12137
GI	none	Score	47
Exons	11229..11282, 11355..11483, 11498..11668, 11499..11669, 11675..11974, 11676..12056, 11682..11981, 12060..12137		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31252	Strand	-
Start	13510	End	18092
Name	OJ990427_02.9924.C20.o1.ts	Method	TBLASTX:Soybean
Start	11229	End	11992
GI	none	Score	49
Exons	11229..11282, 11355..11483, 11358..11480, 11468..11668, 11493..11669, 11661..11981, 11681..11992		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31252	Strand	-
Start	13510	End	18092
Name	OJ990427_02.9924.C20.o2.tw	Method	TBLASTX:Wheat
Start	11415	End	11777
GI	none	Score	177
Exons	11415..11681, 11447..11617, 11693..11776, 11694..11777		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31252	Strand	-
Start	13510	End	18092
Name	OJ990427_02.9924.C20.o1.tw	Method	TBLASTX:Wheat
Start	11777	End	12122
GI	none	Score	378
Exons	11777..11989, 11778..12065, 12060..12122, 12061..12096, 12068..12121		

Seq. No.	14670	Seq. ID	OJ990427_02.9924.C20
Gene No.	31252	Strand	-
Start	13510	End	18092
Name	OJ990427_02.9924.C20.o4.gs	Method	GENSCAN
Start	13510	End	18092
GI	none	Score	.5
Exons	13510..13529, 13740..13871, 14053..14206, 14799..14861, 16906..17022, 17962..18092		

Seq. No.	14671	Seq. ID	OJ990427_02.9924.C22
Gene No.	31253	Strand	+
Start	589	End	1177
Name	OJ990427_02.9924.C22.o1.gs	Method	GENSCAN
Start	589	End	1177
GI	none	Score	.8
Exons	589..823, 1041..1177		

Seq. No.	14672	Seq. ID	OJ990427_02.9924.C23
Gene No.	31254	Strand	-
Start	3257	End	5968
Name	OJ990427_02.9924.C23.o1.gp	Method	AAT/GAP
Start	3257	End	4320

GI	11290_1.R1084	Score	2078
Exons	3257..4320		
GI Descrip.	'3256035/emb|CAA74646| 2.0e-63 (Y14274) putative serine/threonine protein kinase [Sorghum bicolor]'		

Seq. No.	14672	Seq. ID	OJ990427_02.9924.C23
Gene No.	31254	Strand	-
Start	3257	End	5968
Name	OJ990427_02.9924.C23.o1.tm	Method	TBLASTX:Maize
Start	3379	End	5154
GI	none	Score	46
Exons	3379..3456, 3528..3713, 3529..3825, 3537..3833, 3538..3828, 3826..3921, 3826..3915, 3843..3917, 3909..4826, 3909..4826, 4552..4827, 4858..4971, 4892..5128, 4893..5114, 4915..5154		

Seq. No.	14672	Seq. ID	OJ990427_02.9924.C23
Gene No.	31254	Strand	-
Start	3257	End	5968
Name	OJ990427_02.9924.C23.o1.np	Method	AAT/NAP
Start	3459	End	4823
GI	3256035	Score	1380
Exons	3459..4823		
GI Descrip.	(Y14274) putative serine/threonine protein kinase [Sorghum bicolor]		

Seq. No.	14672	Seq. ID	OJ990427_02.9924.C23
Gene No.	31254	Strand	-
Start	3257	End	5968
Name	OJ990427_02.9924.C23.o2.ts	Method	TBLASTX:Soybean
Start	3528	End	3917
GI	none	Score	177
Exons	3528..3713, 3537..3782, 3551..3739, 3838..3909, 3838..3912, 3843..3917		

Seq. No.	14672	Seq. ID	OJ990427_02.9924.C23
Gene No.	31254	Strand	-
Start	3257	End	5968
Name	OJ990427_02.9924.C23.o1.tc	Method	TBLASTX:Cress
Start	3535	End	5106
GI	none	Score	83
Exons	3535..3681, 3537..3674, 3682..3708, 3817..3963, 3843..3932, 4002..4820, 4026..4820, 4552..4821, 4920..5036, 5077..5106		

Seq. No.	14672	Seq. ID	OJ990427_02.9924.C23
Gene No.	31254	Strand	-
Start	3257	End	5968
Name	OJ990427_02.9924.C23.o1.ts	Method	TBLASTX:Soybean
Start	4011	End	4820
GI	none	Score	381
Exons	4011..4787, 4011..4820, 4555..4788		

Seq. No.	14672	Seq. ID	OJ990427_02.9924.C23
Gene No.	31254	Strand	-
Start	3257	End	5968
Name	OJ990427_02.9924.C23.o2.tw	Method	TBLASTX:Wheat
Start	4017	End	4223
GI	none	Score	73

Exons	4017..4223, 4105..4221		
Seq. No.	14672	Seq. ID	OJ990427_02.9924.C23
Gene No.	31254	Strand	-
Start	3257	End	5968
Name	OJ990427_02.9924.C23.o2.gp	Method	AAT/GAP
Start	4312	End	5968
GI	23307_1.R1084	Score	2009
Exons	4312..5140, 5746..5968		
GI Descrip.	'1777312/dbj|BAA06311| 3.0e-67 (D30622) novel serine/threonine protein kinase [Arabidopsis thaliana]'		
Seq. No.	14672	Seq. ID	OJ990427_02.9924.C23
Gene No.	31254	Strand	-
Start	3257	End	5968
Name	OJ990427_02.9924.C23.o1.tw	Method	TBLASTX:Wheat
Start	4368	End	4670
GI	none	Score	156
Exons	4368..4511, 4521..4670		
Seq. No.	14673	Seq. ID	OJ990427_02.9924.C24
Gene No.	31255	Strand	-
Start	1742	End	6446
Name	OJ990427_02.9924.C24.o2.gs	Method	GENSCAN
Start	1742	End	6446
GI	none	Score	.56
Exons	1742..1759, 2100..2131, 2722..2769, 3079..3251, 3665..3762, 4971..5033, 6309..6446		
Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31256	Strand	+
Start	54	End	2300
Name	OJ990427_02.9924.C25.o1.gs	Method	GENSCAN
Start	54	End	2300
GI	none	Score	.75
Exons	54..114, 478..727, 1012..1093, 1120..1238, 1268..1690, 2129..2300		
Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31257	Strand	+
Start	7681	End	9211
Name	OJ990427_02.9924.C25.o3.gs	Method	GENSCAN
Start	7681	End	9211
GI	none	Score	.75
Exons	7681..7701, 8625..8807, 8813..9211		
Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o1.tc	Method	TBLASTX:Cress
Start	2409	End	5882
GI	none	Score	172
Exons	2409..2621, 2428..2616, 2913..3524, 2923..3522, 3704..3955, 3705..3947, 3709..3963, 4085..4123, 4130..4213, 4301..4363, 4308..4370, 4474..4734, 4475..4735, 4478..4735, 5091..5198, 5110..5154, 5277..5522, 5278..5379, 5409..5543, 5452..5547, 5643..5882, 5644..5877		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o1.tm	Method	TBLASTX:Maize
Start	2421	End	4213
GI	none	Score	262
Exons	2421..2621, 2428..2631, 2787..2849, 2788..2832, 2902..2970, 2904..3524, 2905..3522, 3435..3539, 3703..3948, 3703..3948, 3704..3961, 3705..3989, 3708..3980, 4079..4213, 4080..4205, 4085..4210		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o2.gs	Method	GENSCAN
Start	2421	End	6004
GI	none	Score	.82
Exons	2421..3520, 3706..3960, 4084..4207, 4304..4407, 4476..4736, 5276..5457, 5478..5487, 5645..5879, 5990..6004		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o4.ts	Method	TBLASTX:Soybean
Start	2421	End	2621
GI	none	Score	101
Exons	2421..2621, 2437..2613		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o1.np	Method	AAT/NAP
Start	2424	End	5908
GI	2384671	Score	2625
Exons	2424..3520, 3706..3960, 4084..4207, 4304..4356, 4476..4736, 5099..5152, 5276..5521, 5645..5908		
GI Descrip.	(AF012657) putative potassium transporter AtKT2p [Arabidopsis thaliana]		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o2.tw	Method	TBLASTX:Wheat
Start	2430	End	2631
GI	none	Score	70
Exons	2430..2591, 2430..2621, 2539..2631		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o2.gp	Method	AAT/GAP
Start	2660	End	3077
GI	LIB3433-007-Q6-K1-F9	Score	791
Exons	2660..3077		
GI Descrip.	'2651303 1.0e-21 (AC002336) putative potassium transporter [Arabidopsis thaliana]'		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o1.ts	Method	TBLASTX:Soybean
Start	2910	End	3525
GI	none	Score	424
Exons	2910..3524, 2911..3525		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o2.ts	Method	TBLASTX:Soybean
Start	3702	End	4680
GI	none	Score	326
Exons	3702..3962, 3704..3961, 3712..3975, 4085..4132, 4130..4213, 4140..4205, 4301..4363, 4308..4364, 4470..4547, 4474..4569, 4475..4549, 4477..4572, 4570..4680, 4595..4672		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o4.tm	Method	TBLASTX:Maize
Start	4268	End	4654
GI	none	Score	53
Exons	4268..4363, 4290..4358, 4474..4653, 4475..4654		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o3.tm	Method	TBLASTX:Maize
Start	4655	End	5543
GI	none	Score	117
Exons	4655..4735, 4657..4734, 4673..4735, 5061..5198, 5092..5154, 5277..5522, 5278..5538, 5385..5543		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o1.tw	Method	TBLASTX:Wheat
Start	5277	End	5535
GI	none	Score	79
Exons	5277..5522, 5278..5385, 5436..5522, 5449..5535		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o3.ts	Method	TBLASTX:Soybean
Start	5460	End	5870
GI	none	Score	88
Exons	5460..5522, 5461..5547, 5586..5870, 5644..5865		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o3.gp	Method	AAT/GAP
Start	5602	End	6054

GI	uC-osflcyp109a05b1	Score	529
Exons	5602..5879, 5990..6054		
GI Descrip.	'2384671 1.0e-40 (AF012657) putative potassium transporter AtKT2p [Arabidopsis thaliana]'		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o2.tm	Method	TBLASTX:Maize
Start	5643	End	6031
GI	none	Score	306
Exons	5643..5879, 5644..5871, 5984..6031, 5986..6027		

Seq. No.	14674	Seq. ID	OJ990427_02.9924.C25
Gene No.	31258	Strand	-
Start	2421	End	6240
Name	OJ990427_02.9924.C25.o4.gp	Method	AAT/GAP
Start	5662	End	6240
GI	uC-osflcyp109a05b1	Score	652
Exons	5662..5879, 5990..6051, 6149..6240		
GI Descrip.	'2384671 1.0e-40 (AF012657) putative potassium transporter AtKT2p [Arabidopsis thaliana]'		

Seq. No.	14675	Seq. ID	OJ990427_02.9924.C26
Gene No.	31259	Strand	-
Start	98	End	418
Name	OJ990427_02.9924.C26.o1.gs	Method	GENSCAN
Start	98	End	418
GI	none	Score	.77
Exons	98..223, 347..418		

Seq. No.	14676	Seq. ID	OJ990427_02.9924.C27
Gene No.	31260	Strand	+
Start	5078	End	6644
Name	OJ990427_02.9924.C27.o2.gs	Method	GENSCAN
Start	5078	End	6644
GI	none	Score	.61
Exons	5078..5094, 5679..5801, 6302..6452, 6477..6644		

Seq. No.	14676	Seq. ID	OJ990427_02.9924.C27
Gene No.	31261	Strand	+
Start	9597	End	10411
Name	OJ990427_02.9924.C27.o3.gs	Method	GENSCAN
Start	9597	End	10411
GI	none	Score	.62
Exons	9597..10049, 10175..10411		

Seq. No.	14676	Seq. ID	OJ990427_02.9924.C27
Gene No.	31262	Strand	+
Start	13314	End	18890
Name	OJ990427_02.9924.C27.o1.np	Method	AAT/NAP
Start	13314	End	18687
GI	927575	Score	827
Exons	13314..13475, 14466..14516, 14670..14728, 15098..15154, 15245..15279, 15510..15613, 15712..15784, 15882..15940, 16043..16108, 16202..16285, 16382..16446, 16539..16621, 16909..16999, 17463..17495, 18102..18259, 18601..18687		

GI Descrip. (U12926) alpha galactosidase [Glycine max]

Seq. No.	14676	Seq. ID	OJ990427_02.9924.C27
Gene No.	31262	Strand	+
Start	13314	End	18890
Name	OJ990427_02.9924.C27.o1.gp	Method	AAT/GAP
Start	14313	End	15267
GI	2312735	Score	534
Exons	14313..14516, 14670..14728, 15098..15154, 15245..15267		
GI Descrip.	927575 2.0e-16 (U12926) alpha galactosidase [Glycine max]		

Seq. No.	14676	Seq. ID	OJ990427_02.9924.C27
Gene No.	31262	Strand	+
Start	13314	End	18890
Name	OJ990427_02.9924.C27.o5.gs	Method	GENSCAN
Start	14323	End	18708
GI	none	Score	.83
Exons	14323..14516, 14670..14728, 15245..15279, 15882..15940, 16202..16285, 17762..17861, 18119..18259, 18601..18708		

Seq. No.	14676	Seq. ID	OJ990427_02.9924.C27
Gene No.	31262	Strand	+
Start	13314	End	18890
Name	OJ990427_02.9924.C27.o2.gp	Method	AAT/GAP
Start	16363	End	18890
GI	16828_1.R1084	Score	1323
Exons	16363..16446, 16539..16621, 16909..16999, 17463..17521, 18119..18259, 18601..18890		
GI Descrip.	'927575 2.0e-16 (U12926) alpha galactosidase [Glycine max]'		

Seq. No.	14676	Seq. ID	OJ990427_02.9924.C27
Gene No.	31263	Strand	-
Start	2489	End	3016
Name	OJ990427_02.9924.C27.o1.gs	Method	GENSCAN
Start	2489	End	3016
GI	none	Score	.78
Exons	2489..3016		

Seq. No.	14676	Seq. ID	OJ990427_02.9924.C27
Gene No.	31264	Strand	-
Start	11096	End	14002
Name	OJ990427_02.9924.C27.o4.gs	Method	GENSCAN
Start	11096	End	14002
GI	none	Score	.67
Exons	11096..11247, 11740..11950, 12516..12556, 13948..14002		

Seq. No.	14676	Seq. ID	OJ990427_02.9924.C27
Gene No.	31265	Strand	
Start	14671	End	18710
Name	OJ990427_02.9924.C27.o1.ts	Method	TBLASTX:Soybean
Start	14671	End	18684
GI	none	Score	90
Exons	14671..14736, 15091..15153, 15516..15614, 15518..15613, 15733..15780, 15734..15784, 15881..15943, 15882..15941, 15882..15944, 16034..16108, 16041..16109, 16041..16109, 16200..16280, 16202..16285, 16203..16280, 16379..16444, 16380..16445, 16383..16445, 16535..16624, 16537..16623,		

16906..16998, 18112..18255, 18113..18259, 18595..18684

Seq. No.	14676	Seq. ID	OJ990427_02.9924.C27
Gene No.	31265	Strand	
Start	14671	End	18710
Name	OJ990427_02.9924.C27.o1.tw	Method	TBLASTX:Wheat
Start	15516	End	15941
GI	none	Score	141
Exons	15516..15614, 15518..15613, 15525..15638, 15722..15784, 15881..15940, 15882..15941		

Seq. No.	14676	Seq. ID	OJ990427_02.9924.C27
Gene No.	31265	Strand	
Start	14671	End	18710
Name	OJ990427_02.9924.C27.o1.tc	Method	TBLASTX:Cress
Start	15591	End	16998
GI	none	Score	38
Exons	15591..15614, 15725..15784, 15881..15949, 15882..15941, 16034..16108, 16041..16109, 16200..16283, 16202..16285, 16203..16283, 16379..16444, 16380..16445, 16380..16445, 16535..16624, 16537..16623, 16906..16998		

Seq. No.	14676	Seq. ID	OJ990427_02.9924.C27
Gene No.	31265	Strand	
Start	14671	End	18710
Name	OJ990427_02.9924.C27.o1.tm	Method	TBLASTX:Maize
Start	15733	End	18710
GI	none	Score	77
Exons	15733..15783, 15734..15784, 15736..15786, 15881..15943, 15882..15941, 15890..15946, 16041..16109, 16043..16108, 16044..16109, 16045..16110, 16190..16285, 16203..16283, 16379..16444, 16380..16445, 16380..16445, 16381..16446, 16535..16624, 16537..16623, 16900..16998, 16906..16998, 16908..17000, 17460..17525, 17462..17524, 18109..18258, 18110..18259, 18598..18696, 18598..18678, 18600..18710		

Seq. No.	14677	Seq. ID	OJ990427_02.9924.C28
Gene No.	31266	Strand	-
Start	32	End	122
Name	OJ990427_02.9924.C28.o1.gs	Method	GENSCAN
Start	32	End	122
GI	none	Score	.51
Exons	32..122		

Seq. No.	14678	Seq. ID	OJ990427_02.9924.C29
Gene No.	31267	Strand	-
Start	186	End	516
Name	OJ990427_02.9924.C29.o1.gs	Method	GENSCAN
Start	186	End	516
GI	none	Score	.51
Exons	186..348, 389..516		

Seq. No.	14679	Seq. ID	OJ990427_02.9924.C30
Gene No.	31268	Strand	+
Start	67	End	650
Name	OJ990427_02.9924.C30.o1.gp	Method	AAT/GAP
Start	67	End	397

GI	292_1.R1084	Score	510
Exons	67..397		
GI Descrip.	'2429290 1.0e-156 (AF014469) peroxidase [Oryza sativa]'		

Seq. No.	14679	Seq. ID	OJ990427_02.9924.C30
Gene No.	31268	Strand	+
Start	67	End	650
Name	OJ990427_02.9924.C30.o1.gs	Method	GENSCAN
Start	71	End	650
GI	none	Score	.4
Exons	71..131, 573..650		

Seq. No.	14680	Seq. ID	OJ990427_02.9924.C31
Gene No.	31269	Strand	-
Start	529	End	760
Name	OJ990427_02.9924.C31.o1.gs	Method	GENSCAN
Start	529	End	760
GI	none	Score	.51
Exons	529..760		

Seq. No.	14681	Seq. ID	OJ990407_02.9923.C1
Gene No.	31270	Strand	+
Start	486	End	1243
Name	OJ990407_02.9923.C1.o1.np	Method	AAT/NAP
Start	486	End	1243
GI	6907086	Score	900
Exons	486..1243		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	14681	Seq. ID	OJ990407_02.9923.C1
Gene No.	31270	Strand	+
Start	486	End	1243
Name	OJ990407_02.9923.C1.o1.gs	Method	GENSCAN
Start	729	End	1232
GI	none	Score	.97
Exons	729..1232		

Seq. No.	14682	Seq. ID	OJ990407_02.9923.C2
Gene No.	31271	Strand	+
Start	181	End	6682
Name	OJ990407_02.9923.C2.o1.gs	Method	GENSCAN
Start	181	End	6682
GI	none	Score	.84
Exons	181..279, 359..461, 4203..4234, 4345..4593, 5073..6536, 6629..6682		

Seq. No.	14682	Seq. ID	OJ990407_02.9923.C2
Gene No.	31271	Strand	+
Start	181	End	6682
Name	OJ990407_02.9923.C2.o1.np	Method	AAT/NAP
Start	4402	End	6679
GI	2462832	Score	1587
Exons	4402..4593, 5073..6536, 6629..6679		
GI Descrip.	(AF000657) similar to Bacillus CotA [Arabidopsis thaliana]		

Seq. No.	14682	Seq. ID	OJ990407_02.9923.C2
Gene No.	31271	Strand	+

Start	181	End	6682
Name	OJ990407_02.9923.C2.o1.gp	Method	AAT/GAP
Start	6008	End	6506
GI	LIB3434-003-P1-K1-B1	Score	909
Exons	6008..6506		
GI Descrip.	'5803242/dbj|AP000399.1|AP000399 7.0e-10 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	14682	Seq. ID	OJ990407_02.9923.C2
Gene No.	31272	Strand	-
Start	7805	End	9941
Name	OJ990407_02.9923.C2.o3.ts	Method	TBLASTX:Soybean
Start	4480	End	5333
GI	none	Score	83
Exons	4480..4593, 5072..5257, 5073..5252, 5264..5332, 5265..5333		

Seq. No.	14682	Seq. ID	OJ990407_02.9923.C2
Gene No.	31272	Strand	-
Start	7805	End	9941
Name	OJ990407_02.9923.C2.o1.tc	Method	TBLASTX:Cress
Start	5235	End	9939
GI	none	Score	333
Exons	5235..5507, 5246..5434, 5550..5618, 9730..9816, 9817..9939		

Seq. No.	14682	Seq. ID	OJ990407_02.9923.C2
Gene No.	31272	Strand	-
Start	7805	End	9941
Name	OJ990407_02.9923.C2.o1.ts	Method	TBLASTX:Soybean
Start	5594	End	9756
GI	none	Score	389
Exons	5594..5686, 5595..5999, 5789..5890, 9385..9432, 9464..9583, 9466..9756, 9653..9745		

Seq. No.	14682	Seq. ID	OJ990407_02.9923.C2
Gene No.	31272	Strand	-
Start	7805	End	9941
Name	OJ990407_02.9923.C2.o1.tm	Method	TBLASTX:Maize
Start	5999	End	9183
GI	none	Score	62
Exons	5999..6112, 6000..6113, 6122..6268, 6123..6317, 6216..6281, 8992..9183, 9038..9091		

Seq. No.	14682	Seq. ID	OJ990407_02.9923.C2
Gene No.	31272	Strand	-
Start	7805	End	9941
Name	OJ990407_02.9923.C2.o2.ts	Method	TBLASTX:Soybean
Start	6060	End	9258
GI	none	Score	226
Exons	6060..6296, 6101..6307, 6305..6391, 6309..6404, 9004..9168, 9166..9258		

Seq. No.	14682	Seq. ID	OJ990407_02.9923.C2
Gene No.	31272	Strand	-
Start	7805	End	9941
Name	OJ990407_02.9923.C2.o2.tc	Method	TBLASTX:Cress
Start	6213	End	9091
GI	none	Score	309

Exons	6213..6527, 6215..6445, 6629..6664, 8779..9090, 8843..9091		
Seq. No.	14682	Seq. ID	OJ990407_02.9923.C2
Gene No.	31272	Strand	-
Start	7805	End	9941
Name	OJ990407_02.9923.C2.o2.gs	Method	GENSCAN
Start	7805	End	9892
GI	none	Score	.92
Exons	7805..8062, 8770..9892		
Seq. No.	14682	Seq. ID	OJ990407_02.9923.C2
Gene No.	31272	Strand	-
Start	7805	End	9941
Name	OJ990407_02.9923.C2.o2.np	Method	AAT/NAP
Start	8547	End	9941
GI	2462832	Score	922
Exons	8547..8597, 8770..9303, 9334..9941		
GI Descrip.	(AF000657) similar to Bacillus CotA [Arabidopsis thaliana]		
Seq. No.	14682	Seq. ID	OJ990407_02.9923.C2
Gene No.	31272	Strand	-
Start	7805	End	9941
Name	OJ990407_02.9923.C2.o4.gp	Method	AAT/GAP
Start	9040	End	9478
GI	LIB3434-010-P1-K1-F2	Score	801
Exons	9040..9478		
GI Descrip.	'2462832 3.0e-19 (AF000657) similar to Bacillus CotA [Arabidopsis thaliana]'		
Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31273	Strand	+
Start	3037	End	3213
Name	OJ990407_02.9923.C3.o2.gs	Method	GENSCAN
Start	3037	End	3213
GI	none	Score	.64
Exons	3037..3213		
Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31274	Strand	+
Start	7496	End	7825
Name	OJ990407_02.9923.C3.o3.gp	Method	AAT/GAP
Start	7496	End	7825
GI	none	Score	384
Exons	7496..7825		
Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31275	Strand	-
Start	233	End	866
Name	OJ990407_02.9923.C3.o1.gs	Method	GENSCAN
Start	233	End	628
GI	none	Score	.42
Exons	233..628		
Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31275	Strand	-
Start	233	End	866
Name	OJ990407_02.9923.C3.o1.gp	Method	AAT/GAP

Start	322	End	866
GI	none	Score	740
Exons	322..628, 757..866		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31276	Strand	-
Start	4999	End	8069
Name	OJ990407_02.9923.C3.o3.gs	Method	GENSCAN
Start	4999	End	7823
GI	none	Score	.42
Exons	4999..5078, 5137..6613, 7410..7823		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31276	Strand	-
Start	4999	End	8069
Name	OJ990407_02.9923.C3.o1.np	Method	AAT/NAP
Start	5028	End	7817
GI	2462832	Score	1257
Exons	5028..5078, 5168..6613, 7410..7530, 7792..7817		
GI Descrip.	(AF000657) similar to Bacillus CotA [Arabidopsis thaliana]		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31276	Strand	-
Start	4999	End	8069
Name	OJ990407_02.9923.C3.o2.gp	Method	AAT/GAP
Start	5336	End	5960
GI	21192_1.R1084	Score	1153
Exons	5336..5960		
GI Descrip.	'2462832 4.0e-38 (AF000657) similar to Bacillus CotA [Arabidopsis thaliana]'		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31276	Strand	-
Start	4999	End	8069
Name	OJ990407_02.9923.C3.o4.gp	Method	AAT/GAP
Start	7615	End	8069
GI	none	Score	484
Exons	7615..7823, 8017..8069		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31277	Strand	-
Start	11736	End	14807
Name	OJ990407_02.9923.C3.o2.tc	Method	TBLASTX:Cress
Start	5031	End	5491
GI	none	Score	242
Exons	5031..5078, 5177..5491		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31277	Strand	-
Start	11736	End	14807
Name	OJ990407_02.9923.C3.o2.tm	Method	TBLASTX:Maize
Start	5387	End	5576
GI	none	Score	118
Exons	5387..5572, 5436..5576		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31277	Strand	-

Start	11736	End	14807
Name	OJ990407_02.9923.C3.o2.ts	Method	TBLASTX:Soybean
Start	5738	End	6091
GI	none	Score	57
Exons	5738..5794, 5772..5915, 5822..5935, 5939..6091, 5968..5982, 6027..6080		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31277	Strand	-
Start	11736	End	14807
Name	OJ990407_02.9923.C3.o1.tc	Method	TBLASTX:Cress
Start	6095	End	6448
GI	none	Score	178
Exons	6095..6151, 6152..6448, 6252..6440		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31277	Strand	-
Start	11736	End	14807
Name	OJ990407_02.9923.C3.o1.ts	Method	TBLASTX:Soybean
Start	6353	End	7523
GI	none	Score	87
Exons	6353..6421, 6354..6422, 6429..6611, 6434..6613, 7410..7523		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31277	Strand	-
Start	11736	End	14807
Name	OJ990407_02.9923.C3.o1.tm	Method	TBLASTX:Maize
Start	11719	End	14775
GI	none	Score	343
Exons	11719..12060, 11739..12065, 11740..12060, 11760..12065, 14653..14775, 14660..14761		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31277	Strand	-
Start	11736	End	14807
Name	OJ990407_02.9923.C3.o4.gs	Method	GENSCAN
Start	11736	End	14742
GI	none	Score	.8
Exons	11736..12057, 12880..13139, 14644..14742		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31277	Strand	-
Start	11736	End	14807
Name	OJ990407_02.9923.C3.o2.np	Method	AAT/NAP
Start	11760	End	14807
GI	3024874	Score	276
Exons	11760..12057, 12880..13139, 14644..14807		
GI Descrip.	HYPOTHETICAL 50.0 KD PROTEIN SLR0076 gi|1001707|dbj|BAA10544| (D64004) hypothetical protein [Synechocystis sp.]		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31277	Strand	-
Start	11736	End	14807
Name	OJ990407_02.9923.C3.o3.ts	Method	TBLASTX:Soybean
Start	11772	End	12087
GI	none	Score	48
Exons	11772..11915, 11836..11895, 11895..12086, 11914..12087		

Seq. No.	14683	Seq. ID	OJ990407_02.9923.C3
Gene No.	31277	Strand	-
Start	11736	End	14807
Name	OJ990407_02.9923.C3.o4.ts	Method	TBLASTX:Soybean
Start	12876	End	14760
GI	none	Score	112
Exons	12876..12935, 12924..13004, 12947..13132, 13005..13142, 13018..13134, 13020..13142, 14644..14760		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31278	Strand	+
Start	279	End	4694
Name	OJ990407_02.9923.C4.o1.gs	Method	GENSCAN
Start	279	End	4694
GI	none	Score	.74
Exons	279..530, 611..727, 852..980, 1125..1301, 2094..2282, 2360..2431, 3326..3444, 4035..4199, 4274..4694		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31278	Strand	+
Start	279	End	4694
Name	OJ990407_02.9923.C4.o1.np	Method	AAT/NAP
Start	438	End	2642
GI	1653379	Score	637
Exons	438..530, 611..727, 852..996, 1144..1301, 1679..1819, 2094..2276, 2366..2431, 2531..2642		
GI Descrip.	(D90913) hypothetical protein [Synechocystis sp.]		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31278	Strand	+
Start	279	End	4694
Name	OJ990407_02.9923.C4.o1.gp	Method	AAT/GAP
Start	2714	End	2948
GI	3759684	Score	436
Exons	2714..2948		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31279	Strand	+
Start	5229	End	6327
Name	OJ990407_02.9923.C4.o2.gp	Method	AAT/GAP
Start	5200	End	6100
GI	95698_1.R1084	Score	1409
Exons	5200..5334, 5421..6100		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31279	Strand	+
Start	5229	End	6327
Name	OJ990407_02.9923.C4.o2.gs	Method	GENSCAN
Start	5229	End	6327
GI	none	Score	.97
Exons	5229..5334, 5421..5656, 5695..6327		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31279	Strand	+

Start	5229	End	6327
Name	OJ990407_02.9923.C4.o2.np	Method	AAT/NAP
Start	5229	End	6312
GI	6553943	Score	965
Exons	5229..5334, 5421..5572, 5615..6312		
GI Descrip.	(AC011915) putative reductase [Arabidopsis thaliana]		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31280	Strand	+
Start	7925	End	8721
Name	OJ990407_02.9923.C4.o3.gp	Method	AAT/GAP
Start	7894	End	8263
GI	22005_1.R1084	Score	683
Exons	7894..8263		
GI Descrip.	'124036/sp|P07084|IBBR_ORYSA 2.0e-13 BOWMAN-BIRK TYPE BRAN TRYPSIN INHIBITOR (RBTI) >gi_476550_pir__TIRZBR trypsin inhibitor (Bowman-Birk) - rice >gi_359095_prf__1310273A trypsin inhibitor [Oryza sativa]'		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31280	Strand	+
Start	7925	End	8721
Name	OJ990407_02.9923.C4.o3.gs	Method	GENSCAN
Start	7925	End	8464
GI	none	Score	1
Exons	7925..8464		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31280	Strand	+
Start	7925	End	8721
Name	OJ990407_02.9923.C4.o4.gp	Method	AAT/GAP
Start	8287	End	8721
GI	LIB3434-033-P1-K1-F9	Score	828
Exons	8287..8721		
GI Descrip.	'3264598 8.0e-14 (AF057184) trypsin inhibitor [Zea mays]'		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31281	Strand	+
Start	10426	End	13497
Name	OJ990407_02.9923.C4.o4.gs	Method	GENSCAN
Start	10426	End	13497
GI	none	Score	.82
Exons	10426..10650, 11213..11521, 11964..12015, 12509..12746, 12843..12993, 13096..13497		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31281	Strand	+
Start	10426	End	13497
Name	OJ990407_02.9923.C4.o3.np	Method	AAT/NAP
Start	10552	End	13398
GI	2252862	Score	674
Exons	10552..10659, 11213..11423, 12509..12717, 12835..12993, 13096..13398		
GI Descrip.	(AF013294) Similar to receptor kinase [Arabidopsis thaliana]		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31282	Strand	+

Start	16563	End	16668
Name	OJ990407_02.9923.C4.o6.gp	Method	AAT/GAP
Start	16563	End	16668
GI	5816518	Score	155
Exons	16563..16668		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o4.tm	Method	TBLASTX:Maize
Start	2393	End	2752
GI	none	Score	59
Exons	2393..2434, 2530..2736, 2531..2737, 2534..2752		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o3.ts	Method	TBLASTX:Soybean
Start	5228	End	5557
GI	none	Score	151
Exons	5228..5335, 5229..5339, 5422..5544, 5423..5557		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o2.tc	Method	TBLASTX:Cress
Start	5231	End	5826
GI	none	Score	114
Exons	5231..5332, 5232..5333, 5422..5559, 5423..5557, 5621..5689, 5644..5694, 5746..5826		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o5.tw	Method	TBLASTX:Wheat
Start	5241	End	5563
GI	none	Score	103
Exons	5241..5330, 5423..5557, 5443..5559, 5453..5563		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o2.tm	Method	TBLASTX:Maize
Start	5419	End	8446
GI	none	Score	50
Exons	5419..5547, 8060..8095, 8060..8077, 8102..8185, 8108..8131, 8180..8239, 8222..8239, 8269..8445, 8270..8446, 8270..8290, 8315..8374		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o2.ts	Method	TBLASTX:Soybean
Start	5722	End	6153
GI	none	Score	46

Exons	5722..5754, 5773..6153, 5895..6152		
Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o3.tm	Method	TBLASTX:Maize
Start	5773	End	6240
GI	none	Score	249
Exons	5773..6240		
Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o4.tw	Method	TBLASTX:Wheat
Start	5827	End	6168
GI	none	Score	194
Exons	5827..6168		
Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o3.tc	Method	TBLASTX:Cress
Start	5896	End	6312
GI	none	Score	66
Exons	5896..5988, 6061..6312, 6078..6308, 6082..6312		
Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o3.tw	Method	TBLASTX:Wheat
Start	8060	End	8446
GI	none	Score	44
Exons	8060..8077, 8108..8146, 8248..8352, 8249..8353, 8254..8343, 8258..8446, 8392..8442		
Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o1.ts	Method	TBLASTX:Soybean
Start	10564	End	13299
GI	none	Score	105
Exons	10564..10659, 10575..10658, 11210..11422, 11212..11418, 12508..12741, 12516..12743, 12829..12993, 12843..12953, 13099..13149, 13156..13299		
Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o1.tm	Method	TBLASTX:Maize
Start	10588	End	12987
GI	none	Score	80
Exons	10588..10659, 11210..11440, 12523..12726, 12531..12725, 12844..12987		
Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182

Name	OJ990407_02.9923.C4.o4.tc	Method	TBLASTX:Cress
Start	10588	End	11425
GI	none	Score	71
Exons	10588..10659, 11201..11425, 11212..11424		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o2.tw	Method	TBLASTX:Wheat
Start	11210	End	12570
GI	none	Score	212
Exons	11210..11437, 11212..11418, 12508..12570		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o1.tc	Method	TBLASTX:Cress
Start	12532	End	13170
GI	none	Score	211
Exons	12532..12726, 12534..12728, 12840..12986, 12844..13005, 13099..13170		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o1.tw	Method	TBLASTX:Wheat
Start	12571	End	12993
GI	none	Score	195
Exons	12571..12741, 12573..12743, 12577..12744, 12618..12743, 12829..12993, 12843..12950		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o5.gp	Method	AAT/GAP
Start	16305	End	16554
GI	3761181	Score	422
Exons	16305..16554		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o4.np	Method	AAT/NAP
Start	17896	End	23182
GI	5091513	Score	2059
Exons	17896..18322, 18811..18920, 19024..20126, 20865..21643, 23149..23182		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o5.gs	Method	GENSCAN
Start	18146	End	18301
GI	none	Score	.67

Exons	18146..18301		
Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o7.gs	Method	GENSCAN
Start	20961	End	22000
GI	none	Score	.53
Exons	20961..21607, 21892..22000		
Seq. No.	14684	Seq. ID	OJ990407_02.9923.C4
Gene No.	31283	Strand	-
Start	18146	End	23182
Name	OJ990407_02.9923.C4.o7.gp	Method	AAT/GAP
Start	22267	End	22516
GI	3761181	Score	423
Exons	22267..22516		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		
Seq. No.	14685	Seq. ID	OJ990407_02.9923.C5
Gene No.	31284	Strand	+
Start	1107	End	1666
Name	OJ990407_02.9923.C5.o1.gs	Method	GENSCAN
Start	1107	End	1666
GI	none	Score	.72
Exons	1107..1159, 1657..1666		
Seq. No.	14686	Seq. ID	OJ990407_02.9923.C6
Gene No.	31285	Strand	+
Start	268	End	1026
Name	OJ990407_02.9923.C6.o2.tw	Method	TBLASTX:Wheat
Start	262	End	576
GI	none	Score	54
Exons	262..336, 276..329, 318..398, 319..402, 405..566, 405..575, 406..576		
Seq. No.	14686	Seq. ID	OJ990407_02.9923.C6
Gene No.	31285	Strand	+
Start	268	End	1026
Name	OJ990407_02.9923.C6.o1.gs	Method	GENSCAN
Start	268	End	993
GI	none	Score	.98
Exons	268..993		
Seq. No.	14686	Seq. ID	OJ990407_02.9923.C6
Gene No.	31285	Strand	+
Start	268	End	1026
Name	OJ990407_02.9923.C6.o1.np	Method	AAT/NAP
Start	277	End	1026
GI	5257279	Score	1019
Exons	277..1026		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		
Seq. No.	14686	Seq. ID	OJ990407_02.9923.C6
Gene No.	31285	Strand	+

Start	268	End	1026
Name	OJ990407_02.9923.C6.o1.tm	Method	TBLASTX:Maize
Start	415	End	915
GI	none	Score	162
Exons	415..594, 580..915, 741..893		

Seq. No.	14686	Seq. ID	OJ990407_02.9923.C6
Gene No.	31285	Strand	+
Start	268	End	1026
Name	OJ990407_02.9923.C6.o1.ts	Method	TBLASTX:Soybean
Start	469	End	864
GI	none	Score	56
Exons	469..501, 469..501, 486..545, 505..864, 505..813, 621..863		

Seq. No.	14686	Seq. ID	OJ990407_02.9923.C6
Gene No.	31285	Strand	+
Start	268	End	1026
Name	OJ990407_02.9923.C6.o1.tw	Method	TBLASTX:Wheat
Start	577	End	977
GI	none	Score	453
Exons	577..954, 621..944, 951..977		

Seq. No.	14687	Seq. ID	OJ990407_02.9923.C7
Gene No.	31286	Strand	+
Start	61	End	466
Name	OJ990407_02.9923.C7.o1.gs	Method	GENSCAN
Start	61	End	466
GI	none	Score	.99
Exons	61..466		

Seq. No.	14688	Seq. ID	OJ990407_02.9923.C9
Gene No.	31287	Strand	-
Start	8	End	559
Name	OJ990407_02.9923.C9.o1.np	Method	AAT/NAP
Start	8	End	559
GI	2462832	Score	451
Exons	8..58, 151..559		
GI Descrip.	(AF000657) similar to Bacillus CotA [Arabidopsis thaliana]		

Seq. No.	14688	Seq. ID	OJ990407_02.9923.C9
Gene No.	31287	Strand	-
Start	8	End	559
Name	OJ990407_02.9923.C9.o1.tc	Method	TBLASTX:Cress
Start	11	End	474
GI	none	Score	127
Exons	11..58, 160..474, 242..472		

Seq. No.	14688	Seq. ID	OJ990407_02.9923.C9
Gene No.	31287	Strand	-
Start	8	End	559
Name	OJ990407_02.9923.C9.o1.gs	Method	GENSCAN
Start	151	End	496
GI	none	Score	.43
Exons	151..496		

Seq. No.	14688	Seq. ID	OJ990407_02.9923.C9
Gene No.	31287	Strand	-

Start	8	End	559
Name	OJ990407_02.9923.C9.o1.gp	Method	AAT/GAP
Start	181	End	559
GI	LIB3434-003-P1-K1-B1	Score	676
Exons	181..559		
GI Descrip.	'5803242/dbj|AP000399.1|AP000399 7.0e-10 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	14688	Seq. ID	OJ990407_02.9923.C9
Gene No.	31287	Strand	-
Start	8	End	559
Name	OJ990407_02.9923.C9.o1.ts	Method	TBLASTX:Soybean
Start	283	End	559
GI	none	Score	58
Exons	283..378, 296..382, 391..501, 482..559		

Seq. No.	14689	Seq. ID	OJ990407_02.9923.C14
Gene No.	31288	Strand	-
Start	1639	End	9016
Name	OJ990407_02.9923.C14.o1.np	Method	AAT/NAP
Start	1639	End	9016
GI	1786136	Score	38
Exons	1639..1783, 4519..4693, 8984..9016		
GI Descrip.	(AB000452) PEThy;ZPT2-6 [Petunia x hybrida]		

Seq. No.	14689	Seq. ID	OJ990407_02.9923.C14
Gene No.	31288	Strand	-
Start	1639	End	9016
Name	OJ990407_02.9923.C14.o1.gp	Method	AAT/GAP
Start	4009	End	5057
GI	2310781	Score	693
Exons	4009..4150, 4280..4361, 4607..4732, 4983..5057		

Seq. No.	14690	Seq. ID	OJ990407_02.9923.C15
Gene No.	31289	Strand	-
Start	2268	End	2881
Name	OJ990407_02.9923.C15.o1.gs	Method	GENSCAN
Start	2268	End	2881
GI	none	Score	.76
Exons	2268..2372, 2494..2620, 2669..2881		

Seq. No.	14690	Seq. ID	OJ990407_02.9923.C15
Gene No.	31290	Strand	-
Start	3717	End	3833
Name	OJ990407_02.9923.C15.o1.gp	Method	AAT/GAP
Start	3717	End	3833
GI	2800454	Score	195
Exons	3717..3833		

Seq. No.	14691	Seq. ID	OJ990407_02.9923.C16
Gene No.	31291	Strand	-
Start	1	End	105
Name	OJ990407_02.9923.C16.o1.gp	Method	AAT/GAP
Start	1	End	105
GI	uC-osrocyp002b09b1	Score	197
Exons	1..105		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA,		

similar sequence to Pib gene'

Seq. No.	14691	Seq. ID	OJ990407_02.9923.C16
Gene No.	31292	Strand	-
Start	1680	End	2252
Name	OJ990407_02.9923.C16.o1.ts	Method	TBLASTX:Soybean
Start	1659	End	2243
GI	none	Score	72
Exons	1659..1922, 1756..1917, 1950..2243, 2035..2145		

Seq. No.	14691	Seq. ID	OJ990407_02.9923.C16
Gene No.	31292	Strand	-
Start	1680	End	2252
Name	OJ990407_02.9923.C16.o1.gs	Method	GENSCAN
Start	1680	End	2155
GI	none	Score	.91
Exons	1680..2155		

Seq. No.	14691	Seq. ID	OJ990407_02.9923.C16
Gene No.	31292	Strand	-
Start	1680	End	2252
Name	OJ990407_02.9923.C16.o1.np	Method	AAT/NAP
Start	1683	End	2252
GI	6630685	Score	602
Exons	1683..2252		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	14691	Seq. ID	OJ990407_02.9923.C16
Gene No.	31292	Strand	-
Start	1680	End	2252
Name	OJ990407_02.9923.C16.o1.tc	Method	TBLASTX:Cress
Start	1701	End	2252
GI	none	Score	67
Exons	1701..1913, 1795..1914, 1932..2066, 2178..2252		

Seq. No.	14691	Seq. ID	OJ990407_02.9923.C16
Gene No.	31292	Strand	-
Start	1680	End	2252
Name	OJ990407_02.9923.C16.o1.tm	Method	TBLASTX:Maize
Start	1701	End	2243
GI	none	Score	238
Exons	1701..2243, 1702..2241		

Seq. No.	14691	Seq. ID	OJ990407_02.9923.C16
Gene No.	31292	Strand	-
Start	1680	End	2252
Name	OJ990407_02.9923.C16.o1.tw	Method	TBLASTX:Wheat
Start	1728	End	2207
GI	none	Score	64
Exons	1728..1922, 1741..1917, 1815..1919, 1941..2207		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31293	Strand	+
Start	3801	End	4146
Name	OJ990407_02.9923.C17.o1.gp	Method	AAT/GAP
Start	3801	End	4146

GI	uC-osrocyp002b09a1	Score	477
Exons	3801..4146		
GI Descrip.	'4768980/gb|AAD29703.1|AF140490_1 1.0e-35 (AF140490) heat-shock protein [Oryza sativa]'		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31294	Strand	-
Start	1	End	4945
Name	OJ990407_02.9923.C17.o1.np	Method	AAT/NAP
Start	1	End	4945
GI	3777527	Score	1528
Exons	1..915, 1000..2291, 4920..4945		
GI Descrip.	(AF053008) gag-pol polyprotein [Glycine max]		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31294	Strand	-
Start	1	End	4945
Name	OJ990407_02.9923.C17.o2.tm	Method	TBLASTX:Maize
Start	74	End	521
GI	none	Score	346
Exons	74..520, 84..521		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31294	Strand	-
Start	1	End	4945
Name	OJ990407_02.9923.C17.o1.gs	Method	GENSCAN
Start	163	End	4911
GI	none	Score	.6
Exons	163..804, 826..3456, 4293..4615, 4829..4911		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31294	Strand	-
Start	1	End	4945
Name	OJ990407_02.9923.C17.o1.ts	Method	TBLASTX:Soybean
Start	183	End	752
GI	5509260	Score	406
Exons	183..752, 185..712		
GI Descrip.	-		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31294	Strand	-
Start	1	End	4945
Name	OJ990407_02.9923.C17.o1.tw	Method	TBLASTX:Wheat
Start	200	End	667
GI	none	Score	155
Exons	200..544, 201..368, 283..369, 399..527, 578..667, 584..661		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31294	Strand	-
Start	1	End	4945
Name	OJ990407_02.9923.C17.o1.tc	Method	TBLASTX:Cress
Start	302	End	568
GI	none	Score	116
Exons	302..568, 303..563		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31294	Strand	-

Start	1	End	4945
Name	OJ990407_02.9923.C17.o1.tm	Method	TBLASTX:Maize
Start	1025	End	1660
GI	none	Score	274
Exons	1025..1177, 1159..1260, 1172..1594, 1173..1502, 1577..1660, 1597..1629		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31294	Strand	-
Start	1	End	4945
Name	OJ990407_02.9923.C17.o2.ts	Method	TBLASTX:Soybean
Start	1025	End	1486
GI	none	Score	52
Exons	1025..1153, 1044..1163, 1175..1486, 1182..1475		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31294	Strand	-
Start	1	End	4945
Name	OJ990407_02.9923.C17.o2.tc	Method	TBLASTX:Cress
Start	1026	End	1468
GI	none	Score	36
Exons	1026..1163, 1031..1162, 1178..1468, 1247..1444		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31294	Strand	-
Start	1	End	4945
Name	OJ990407_02.9923.C17.o2.tw	Method	TBLASTX:Wheat
Start	1328	End	1891
GI	none	Score	96
Exons	1328..1615, 1329..1430, 1343..1618, 1655..1891, 1673..1885		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31294	Strand	-
Start	1	End	4945
Name	OJ990407_02.9923.C17.o3.ts	Method	TBLASTX:Soybean
Start	2972	End	3265
GI	none	Score	180
Exons	2972..3265		

Seq. No.	14692	Seq. ID	OJ990407_02.9923.C17
Gene No.	31294	Strand	-
Start	1	End	4945
Name	OJ990407_02.9923.C17.o2.gp	Method	AAT/GAP
Start	4358	End	4868
GI	uC-osrocyp002b09b1	Score	987
Exons	4358..4868		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31295	Strand	+
Start	807	End	2525
Name	OJ990407_02.9923.C18.o1.gs	Method	GENSCAN
Start	807	End	2525
GI	none	Score	.47
Exons	807..961, 2333..2525		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31296	Strand	-
Start	1	End	9981
Name	OJ990407_02.9923.C18.o1.np	Method	AAT/NAP
Start	1	End	8103
GI	2822157	Score	64
Exons	1..28, 3958..4255, 4774..4870, 8077..8103		
GI Descrip.	(AC004084) similar to GTPase-activating proteins; 35% similar to JC5047 (PID:g2136083) [Homo sapiens]		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31296	Strand	-
Start	1	End	9981
Name	OJ990407_02.9923.C18.o1.gp	Method	AAT/GAP
Start	3505	End	4806
GI	none	Score	1274
Exons	3505..3824, 3950..4255, 4774..4806		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31296	Strand	-
Start	1	End	9981
Name	OJ990407_02.9923.C18.o2.gs	Method	GENSCAN
Start	3606	End	9981
GI	none	Score	.91
Exons	3606..3824, 3950..4255, 4774..4911, 5200..5475, 5556..5777, 6536..6651, 6663..6744, 6772..7182, 7301..7444, 7934..8059, 8579..8668, 8750..8812, 9239..9346, 9793..9981		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31297	Strand	-
Start	13102	End	14970
Name	OJ990407_02.9923.C18.o1.tm	Method	TBLASTX:Maize
Start	3693	End	5466
GI	none	Score	100
Exons	3693..3827, 3742..3828, 3799..3828, 3937..4257, 3944..4258, 3945..3989, 4026..4256, 4043..4258, 5236..5343, 5362..5466		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31297	Strand	-
Start	13102	End	14970
Name	OJ990407_02.9923.C18.o1.tc	Method	TBLASTX:Cress
Start	3985	End	4821
GI	none	Score	185
Exons	3985..4257, 4001..4258, 4026..4256, 4756..4821		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31297	Strand	-
Start	13102	End	14970
Name	OJ990407_02.9923.C18.o1.ts	Method	TBLASTX:Soybean
Start	4037	End	5679
GI	none	Score	127
Exons	4037..4144, 4172..4243, 4196..4258, 4771..4884, 4771..4875, 4772..4885, 5224..5457, 5255..5446, 5553..5678, 5554..5679		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31297	Strand	-
Start	13102	End	14970

Name	OJ990407_02.9923.C18.o5.tm	Method	TBLASTX:Maize
Start	4774	End	5748
GI	none	Score	208
Exons	4774..4881, 5551..5745, 5554..5601, 5556..5744, 5644..5748		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31297	Strand	-
Start	13102	End	14970
Name	OJ990407_02.9923.C18.o2.ts	Method	TBLASTX:Soybean
Start	6543	End	6877
GI	none	Score	84
Exons	6543..6665, 6550..6660, 6551..6670, 6552..6674, 6764..6877, 6769..6876		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31297	Strand	-
Start	13102	End	14970
Name	OJ990407_02.9923.C18.o3.tm	Method	TBLASTX:Maize
Start	6646	End	7004
GI	none	Score	52
Exons	6646..6681, 6650..6679, 6766..6984, 6770..7000, 6772..7002, 6813..7004		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31297	Strand	-
Start	13102	End	14970
Name	OJ990407_02.9923.C18.o3.np	Method	AAT/NAP
Start	13102	End	14970
GI	479357	Score	938
Exons	13102..14739, 14831..14970		
GI Descrip.	hypothetical protein 612 - maize transposon MuA2 gi|22375|emb|CAA44165| (X62251) ORF [Zea mays]		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31297	Strand	-
Start	13102	End	14970
Name	OJ990407_02.9923.C18.o4.gs	Method	GENSCAN
Start	13654	End	14469
GI	none	Score	.56
Exons	13654..14469		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31297	Strand	-
Start	13102	End	14970
Name	OJ990407_02.9923.C18.o2.tm	Method	TBLASTX:Maize
Start	13744	End	14370
GI	none	Score	73
Exons	13744..14019, 13745..13873, 13783..14007, 14035..14100, 14036..14089, 14101..14370, 14126..14365, 14182..14367		

Seq. No.	14693	Seq. ID	OJ990407_02.9923.C18
Gene No.	31297	Strand	-
Start	13102	End	14970
Name	OJ990407_02.9923.C18.o4.tm	Method	TBLASTX:Maize
Start	14374	End	14725
GI	none	Score	133
Exons	14374..14724, 14426..14725		

Seq. No.	14694	Seq. ID	OJ990407_02.9923.C19
Gene No.	31298	Strand	+
Start	1384	End	1939
Name	OJ990407_02.9923.C19.o2.gs	Method	GENSCAN
Start	1384	End	1939
GI	none	Score	.99
Exons	1384..1395, 1415..1939		

Seq. No.	14694	Seq. ID	OJ990407_02.9923.C19
Gene No.	31299	Strand	-
Start	1	End	2178
Name	OJ990407_02.9923.C19.o1.np	Method	AAT/NAP
Start	1	End	2178
GI	2880040	Score	152
Exons	1..220, 312..490, 2120..2178		
GI Descrip.	(AC002340) Mutator-like transposase [Arabidopsis thaliana]		

Seq. No.	14694	Seq. ID	OJ990407_02.9923.C19
Gene No.	31299	Strand	-
Start	1	End	2178
Name	OJ990407_02.9923.C19.o1.gs	Method	GENSCAN
Start	608	End	890
GI	none	Score	.49
Exons	608..890		

Seq. No.	14694	Seq. ID	OJ990407_02.9923.C19
Gene No.	31300	Strand	-
Start	2559	End	3235
Name	OJ990407_02.9923.C19.o1.tc	Method	TBLASTX:Cress
Start	26	End	486
GI	none	Score	76
Exons	26..220, 309..482, 328..486		

Seq. No.	14694	Seq. ID	OJ990407_02.9923.C19
Gene No.	31300	Strand	-
Start	2559	End	3235
Name	OJ990407_02.9923.C19.o1.tm	Method	TBLASTX:Maize
Start	2559	End	2702
GI	none	Score	126
Exons	2559..2702, 2563..2697		

Seq. No.	14694	Seq. ID	OJ990407_02.9923.C19
Gene No.	31300	Strand	-
Start	2559	End	3235
Name	OJ990407_02.9923.C19.o3.gs	Method	GENSCAN
Start	2559	End	3125
GI	none	Score	.96
Exons	2559..3125		

Seq. No.	14694	Seq. ID	OJ990407_02.9923.C19
Gene No.	31300	Strand	-
Start	2559	End	3235
Name	OJ990407_02.9923.C19.o2.np	Method	AAT/NAP
Start	2562	End	3235
GI	6498441	Score	961
Exons	2562..2843, 2937..3235		

GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		
Seq. No.	14694	Seq. ID	OJ990407_02.9923.C19
Gene No.	31300	Strand	-
Start	2559	End	3235
Name	OJ990407_02.9923.C19.o1.tw	Method	TBLASTX:Wheat
Start	2571	End	3180
GI	none	Score	77
Exons	2571..2696, 2575..2697, 2884..3033, 2889..3083, 2987..3040, 3033..3146, 3086..3178, 3109..3180		
Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20
Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o1.np	Method	AAT/NAP
Start	1	End	3578
GI	6498441	Score	4657
Exons	1..1266, 1437..2155, 2331..2465, 2649..3022, 3086..3578		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		
Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20
Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o2.tw	Method	TBLASTX:Wheat
Start	102	End	483
GI	none	Score	238
Exons	102..482, 133..483		
Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20
Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o2.tm	Method	TBLASTX:Maize
Start	258	End	620
GI	none	Score	80
Exons	258..305, 288..500, 297..620, 310..591		
Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20
Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o7.tw	Method	TBLASTX:Wheat
Start	813	End	1125
GI	none	Score	67
Exons	813..1073, 949..1125		
Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20
Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o4.tw	Method	TBLASTX:Wheat
Start	1128	End	1585
GI	none	Score	84
Exons	1128..1277, 1129..1251, 1321..1437, 1338..1436, 1424..1585, 1436..1561		

Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20
Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o6.tw	Method	TBLASTX:Wheat
Start	1942	End	2229
GI	none	Score	60
Exons	1942..2229, 2135..2224		

Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20
Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o1.ts	Method	TBLASTX:Soybean
Start	1993	End	2365
GI	none	Score	86
Exons	1993..2223, 2219..2365, 2223..2348		

Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20
Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o3.tm	Method	TBLASTX:Maize
Start	2116	End	2501
GI	none	Score	60
Exons	2116..2310, 2135..2263, 2222..2500, 2223..2501		

Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20
Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o3.tw	Method	TBLASTX:Wheat
Start	2240	End	2546
GI	none	Score	182
Exons	2240..2545, 2253..2543, 2448..2546		

Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20
Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o1.tm	Method	TBLASTX:Maize
Start	2528	End	2884
GI	none	Score	124
Exons	2528..2833, 2528..2884, 2733..2849		

Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20
Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o1.tw	Method	TBLASTX:Wheat
Start	2552	End	3015
GI	none	Score	216
Exons	2552..3013, 2558..3013, 2572..3015, 2751..3014		

Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20
Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o2.ts	Method	TBLASTX:Soybean
Start	2609	End	2974
GI	none	Score	117
Exons	2609..2743, 2750..2974		

Seq. No.	14695	Seq. ID	OJ990407_02.9923.C20

Gene No.	31301	Strand	-
Start	1	End	3578
Name	OJ990407_02.9923.C20.o5.tw	Method	TBLASTX:Wheat
Start	3260	End	3571
GI	none	Score	152
Exons	3260..3571, 3261..3467		

Seq. No.	14696	Seq. ID	OJ990407_02.9923.C21
Gene No.	31302	Strand	-
Start	1	End	938
Name	OJ990407_02.9923.C21.o1.np	Method	AAT/NAP
Start	1	End	938
GI	5042454	Score	367
Exons	1..298, 352..443, 844..938		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	14696	Seq. ID	OJ990407_02.9923.C21
Gene No.	31302	Strand	-
Start	1	End	938
Name	OJ990407_02.9923.C21.o1.gs	Method	GENSCAN
Start	43	End	558
GI	none	Score	.75
Exons	43..298, 352..558		

Seq. No.	14697	Seq. ID	OJ990407_02.9923.C22
Gene No.	31303	Strand	+
Start	130	End	251
Name	OJ990407_02.9923.C22.o1.gs	Method	GENSCAN
Start	130	End	251
GI	none	Score	.67
Exons	130..251		

Seq. No.	14698	Seq. ID	OJ990407_02.9923.C24
Gene No.	31304	Strand	-
Start	1	End	1128
Name	OJ990407_02.9923.C24.o1.np	Method	AAT/NAP
Start	1	End	1128
GI	4539660	Score	1376
Exons	1..1128		
GI Descrip.	(AF061282) polyprotein [Sorghum bicolor]		

Seq. No.	14698	Seq. ID	OJ990407_02.9923.C24
Gene No.	31304	Strand	-
Start	1	End	1128
Name	OJ990407_02.9923.C24.o2.tw	Method	TBLASTX:Wheat
Start	21	End	409
GI	none	Score	87
Exons	21..164, 22..408, 26..409		

Seq. No.	14698	Seq. ID	OJ990407_02.9923.C24
Gene No.	31304	Strand	-
Start	1	End	1128
Name	OJ990407_02.9923.C24.o1.gs	Method	GENSCAN
Start	23	End	1081
GI	none	Score	.47
Exons	23..652, 897..1081		

Seq. No.	14698	Seq. ID	OJ990407_02.9923.C24
Gene No.	31304	Strand	-
Start	1	End	1128
Name	OJ990407_02.9923.C24.o1.tm	Method	TBLASTX:Maize
Start	130	End	450
GI	none	Score	214
Exons	130..435, 133..450, 137..448		

Seq. No.	14698	Seq. ID	OJ990407_02.9923.C24
Gene No.	31304	Strand	-
Start	1	End	1128
Name	OJ990407_02.9923.C24.o1.ts	Method	TBLASTX:Soybean
Start	367	End	622
GI	none	Score	179
Exons	367..615, 368..622		

Seq. No.	14698	Seq. ID	OJ990407_02.9923.C24
Gene No.	31304	Strand	-
Start	1	End	1128
Name	OJ990407_02.9923.C24.o1.tw	Method	TBLASTX:Wheat
Start	415	End	873
GI	none	Score	218
Exons	415..648, 419..649, 419..655, 654..785, 805..873		

Seq. No.	14698	Seq. ID	OJ990407_02.9923.C24
Gene No.	31304	Strand	-
Start	1	End	1128
Name	OJ990407_02.9923.C24.o2.tm	Method	TBLASTX:Maize
Start	451	End	622
GI	none	Score	152
Exons	451..618, 452..622, 468..620		

Seq. No.	14698	Seq. ID	OJ990407_02.9923.C24
Gene No.	31304	Strand	-
Start	1	End	1128
Name	OJ990407_02.9923.C24.o3.tw	Method	TBLASTX:Wheat
Start	932	End	1127
GI	none	Score	100
Exons	932..1126, 968..1126, 1053..1127		

Seq. No.	14698	Seq. ID	OJ990407_02.9923.C24
Gene No.	31304	Strand	-
Start	1	End	1128
Name	OJ990407_02.9923.C24.o3.tm	Method	TBLASTX:Maize
Start	980	End	1127
GI	none	Score	85
Exons	980..1126, 983..1126, 1032..1127		

Seq. No.	14699	Seq. ID	OJ990407_02.9923.C25
Gene No.	31305	Strand	+
Start	147	End	946
Name	OJ990407_02.9923.C25.o1.np	Method	AAT/NAP
Start	147	End	946
GI	6907087	Score	696
Exons	147..530, 738..946		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza		

sativa]

Seq. No.	14700	Seq. ID	OJ990407_02.9923.C26
Gene No.	31306	Strand	+
Start	257	End	638
Name	OJ990407_02.9923.C26.o1.gp	Method	AAT/GAP
Start	257	End	638
GI	uC-osflcyp033a04b1	Score	655
Exons	257..638		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14700	Seq. ID	OJ990407_02.9923.C26
Gene No.	31307	Strand	-
Start	186	End	406
Name	OJ990407_02.9923.C26.o1.np	Method	AAT/NAP
Start	186	End	406
GI	4680186	Score	245
Exons	186..406		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	14701	Seq. ID	OJ990407_02.9923.C27
Gene No.	31308	Strand	-
Start	1	End	2310
Name	OJ990407_02.9923.C27.o1.np	Method	AAT/NAP
Start	1	End	2139
GI	4680179	Score	1161
Exons	1..980, 1083..2139		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14701	Seq. ID	OJ990407_02.9923.C27
Gene No.	31308	Strand	-
Start	1	End	2310
Name	OJ990407_02.9923.C27.o1.gs	Method	GENSCAN
Start	118	End	2310
GI	none	Score	.98
Exons	118..2310		

Seq. No.	14701	Seq. ID	OJ990407_02.9923.C27
Gene No.	31309	Strand	-
Start	2630	End	2702
Name	OJ990407_02.9923.C27.o1.tm	Method	TBLASTX:Maize
Start	152	End	388
GI	none	Score	146
Exons	152..388, 169..387		

Seq. No.	14701	Seq. ID	OJ990407_02.9923.C27
Gene No.	31309	Strand	-
Start	2630	End	2702
Name	OJ990407_02.9923.C27.o4.tw	Method	TBLASTX:Wheat
Start	164	End	351
GI	none	Score	110
Exons	164..319, 166..351		

Seq. No.	14701	Seq. ID	OJ990407_02.9923.C27
Gene No.	31309	Strand	-
Start	2630	End	2702

Name	OJ990407_02.9923.C27.o1.tw	Method	TBLASTX:Wheat
Start	352	End	766
GI	none	Score	87
Exons	352..501, 359..478, 577..765,	584..766	

Seq. No.	14701	Seq. ID	OJ990407_02.9923.C27
Gene No.	31309	Strand	-
Start	2630	End	2702
Name	OJ990407_02.9923.C27.o3.tm	Method	TBLASTX:Maize
Start	626	End	952
GI	none	Score	44
Exons	626..709, 628..951, 811..945,	839..952	

Seq. No.	14701	Seq. ID	OJ990407_02.9923.C27
Gene No.	31309	Strand	-
Start	2630	End	2702
Name	OJ990407_02.9923.C27.o3.tw	Method	TBLASTX:Wheat
Start	796	End	1137
GI	none	Score	48
Exons	796..966, 798..908, 803..928,	1039..1137	

Seq. No.	14701	Seq. ID	OJ990407_02.9923.C27
Gene No.	31309	Strand	-
Start	2630	End	2702
Name	OJ990407_02.9923.C27.o2.tm	Method	TBLASTX:Maize
Start	1261	End	1662
GI	none	Score	240
Exons	1261..1662		

Seq. No.	14701	Seq. ID	OJ990407_02.9923.C27
Gene No.	31309	Strand	-
Start	2630	End	2702
Name	OJ990407_02.9923.C27.o2.tw	Method	TBLASTX:Wheat
Start	1543	End	1920
GI	none	Score	59
Exons	1543..1920, 1802..1903		

Seq. No.	14701	Seq. ID	OJ990407_02.9923.C27
Gene No.	31309	Strand	-
Start	2630	End	2702
Name	OJ990407_02.9923.C27.o2.np	Method	AAT/NAP
Start	2630	End	2702
GI	6002794	Score	97
Exons	2630..2702		
GI Descrip.	(AF149813) unknown [Oryza sativa]		

Seq. No.	14702	Seq. ID	OJ990407_02.9923.C28
Gene No.	31310	Strand	+
Start	161	End	451
Name	OJ990407_02.9923.C28.o1.gs	Method	GENSCAN
Start	161	End	451
GI	none	Score	.59
Exons	161..451		

Seq. No.	14702	Seq. ID	OJ990407_02.9923.C28
Gene No.	31311	Strand	+
Start	1438	End	2515

Name	OJ990407_02.9923.C28.o2.np	Method	AAT/NAP
Start	1438	End	2515
GI	6907088	Score	574
Exons	1438..1575, 1751..1989, 2475..2515		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	14702	Seq. ID	OJ990407_02.9923.C28
Gene No.	31312	Strand	-
Start	1	End	300
Name	OJ990407_02.9923.C28.o1.np	Method	AAT/NAP
Start	1	End	300
GI	6002794	Score	424
Exons	1..300		
GI Descrip.	(AF149813) unknown [Oryza sativa]		

Seq. No.	14702	Seq. ID	OJ990407_02.9923.C28
Gene No.	31313	Strand	-
Start	883	End	1542
Name	OJ990407_02.9923.C28.o2.gs	Method	GENSCAN
Start	883	End	1542
GI	none	Score	.58
Exons	883..956, 1452..1542		

Seq. No.	14703	Seq. ID	OJ990407_02.9923.C32
Gene No.	31314	Strand	+
Start	104	End	3702
Name	OJ990407_02.9923.C32.o1.np	Method	AAT/NAP
Start	104	End	2984
GI	6957720	Score	663
Exons	104..151, 926..1154, 2148..2414, 2661..2984		
GI Descrip.	(AC021640) putative mannose-6-phosphate isomerase [Arabidopsis thaliana]		

Seq. No.	14703	Seq. ID	OJ990407_02.9923.C32
Gene No.	31314	Strand	+
Start	104	End	3702
Name	OJ990407_02.9923.C32.o1.ts	Method	TBLASTX:Soybean
Start	927	End	2975
GI	none	Score	157
Exons	927..1160, 2131..2415, 2145..2420, 2150..2413, 2188..2427, 2657..2836, 2660..2728, 2667..2828, 2847..2924, 2849..2911, 2895..2975		

Seq. No.	14703	Seq. ID	OJ990407_02.9923.C32
Gene No.	31314	Strand	+
Start	104	End	3702
Name	OJ990407_02.9923.C32.o1.gs	Method	GENSCAN
Start	933	End	3702
GI	none	Score	.69
Exons	933..1154, 2148..2414, 2661..2837, 2896..3029, 3356..3512, 3562..3702		

Seq. No.	14703	Seq. ID	OJ990407_02.9923.C32
Gene No.	31314	Strand	+
Start	104	End	3702
Name	OJ990407_02.9923.C32.o1.tm	Method	TBLASTX:Maize
Start	939	End	2324

GI	none	Score	244
Exons	939..1193, 939..1154, 941..1204, 2097..2324, 2150..2323		
Seq. No.	14703	Seq. ID	OJ990407_02.9923.C32
Gene No.	31314	Strand	+
Start	104	End	3702
Name	OJ990407_02.9923.C32.o1.tc	Method	TBLASTX:Cress
Start	2145	End	2714
GI	none	Score	375
Exons	2145..2411, 2159..2401, 2178..2411, 2664..2714		
Seq. No.	14704	Seq. ID	OJ990407_02.9923.C33
Gene No.	31315	Strand	-
Start	6845	End	9044
Name	OJ990407_02.9923.C33.o1.np	Method	AAT/NAP
Start	6845	End	9017
GI	6715735	Score	531
Exons	6845..6934, 8178..8539, 8635..8764, 8864..9017		
GI Descrip.	(AC016447) putative transcription factor [Arabidopsis thaliana]		
Seq. No.	14704	Seq. ID	OJ990407_02.9923.C33
Gene No.	31315	Strand	-
Start	6845	End	9044
Name	OJ990407_02.9923.C33.o2.gs	Method	GENSCAN
Start	7790	End	9044
GI	none	Score	.81
Exons	7790..8565, 8864..9044		
Seq. No.	14704	Seq. ID	OJ990407_02.9923.C33
Gene No.	31316	Strand	-
Start	9692	End	22057
Name	OJ990407_02.9923.C33.o1.tc	Method	TBLASTX:Cress
Start	8371	End	8963
GI	none	Score	163
Exons	8371..8541, 8372..8572, 8634..8765, 8860..8955, 8862..8963		
Seq. No.	14704	Seq. ID	OJ990407_02.9923.C33
Gene No.	31316	Strand	-
Start	9692	End	22057
Name	OJ990407_02.9923.C33.o1.ts	Method	TBLASTX:Soybean
Start	8371	End	8963
GI	none	Score	133
Exons	8371..8541, 8390..8575, 8634..8765, 8860..8955, 8862..8963, 8874..8957		
Seq. No.	14704	Seq. ID	OJ990407_02.9923.C33
Gene No.	31316	Strand	-
Start	9692	End	22057
Name	OJ990407_02.9923.C33.o4.tm	Method	TBLASTX:Maize
Start	8371	End	8518
GI	none	Score	127
Exons	8371..8517, 8372..8518		
Seq. No.	14704	Seq. ID	OJ990407_02.9923.C33
Gene No.	31316	Strand	-
Start	9692	End	22057
Name	OJ990407_02.9923.C33.o1.tw	Method	TBLASTX:Wheat

Start	8428	End	8957
GI	none	Score	82
Exons	8428..8541, 8474..8572, 8634..8765, 8860..8955, 8862..8957		

Seq. No.	14704	Seq. ID	OJ990407_02.9923.C33
Gene No.	31316	Strand	-
Start	9692	End	22057
Name	OJ990407_02.9923.C33.o1.tm	Method	TBLASTX:Maize
Start	8652	End	9227
GI	none	Score	77
Exons	8652..8726, 8652..8765, 8686..8769, 8860..9051, 8862..9050, 9159..9206, 9160..9183, 9183..9227		

Seq. No.	14704	Seq. ID	OJ990407_02.9923.C33
Gene No.	31316	Strand	-
Start	9692	End	22057
Name	OJ990407_02.9923.C33.o3.gs	Method	GENSCAN
Start	9692	End	21952
GI	none	Score	.48
Exons	9692..9710, 9913..9934, 10573..10712, 17659..17738, 20026..20062, 20272..20374, 20492..20578, 21137..21210, 21300..21367, 21439..21531, 21857..21952		

Seq. No.	14704	Seq. ID	OJ990407_02.9923.C33
Gene No.	31316	Strand	-
Start	9692	End	22057
Name	OJ990407_02.9923.C33.o3.tm	Method	TBLASTX:Maize
Start	20921	End	21531
GI	none	Score	69
Exons	20921..21034, 20945..21040, 21141..21209, 21284..21361, 21439..21531		

Seq. No.	14704	Seq. ID	OJ990407_02.9923.C33
Gene No.	31316	Strand	-
Start	9692	End	22057
Name	OJ990407_02.9923.C33.o2.np	Method	AAT/NAP
Start	20942	End	22057
GI	4099833	Score	453
Exons	20942..21033, 21137..21210, 21300..21367, 21439..21531, 21681..21764, 21857..21920, 22017..22057		
GI Descrip.	(U90265) bifunctional nuclease [Zinnia elegans]		

Seq. No.	14704	Seq. ID	OJ990407_02.9923.C33
Gene No.	31316	Strand	-
Start	9692	End	22057
Name	OJ990407_02.9923.C33.o2.tc	Method	TBLASTX:Cress
Start	20942	End	21361
GI	none	Score	78
Exons	20942..21040, 20949..21035, 21141..21209, 21284..21361		

Seq. No.	14704	Seq. ID	OJ990407_02.9923.C33
Gene No.	31316	Strand	-
Start	9692	End	22057
Name	OJ990407_02.9923.C33.o2.tm	Method	TBLASTX:Maize
Start	21671	End	22057
GI	none	Score	127
Exons	21671..21766, 21675..21782, 21678..21767, 21679..21786,		

21857..21910, 21858..21911, 22010..22057, 22028..22057

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31317	Strand	+
Start	2426	End	5849
Name	OJ990407_02.9923.C34.o2.gs	Method	GENSCAN
Start	2426	End	5849
GI	none	Score	.59
Exons	2426..2566, 2668..2839, 4283..4384, 4494..4737, 5066..5139, 5247..5354, 5815..5849		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31317	Strand	+
Start	2426	End	5849
Name	OJ990407_02.9923.C34.o1.gp	Method	AAT/GAP
Start	2428	End	2843
GI	LIB3477-010-P1-K1-H6	Score	581
Exons	2428..2566, 2668..2843		
GI Descrip.	'5672692/dbj|BAA82696.1| 9.0e-17 (AB028448) nuclease I [Hordeum vulgare]'		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31317	Strand	+
Start	2426	End	5849
Name	OJ990407_02.9923.C34.o2.np	Method	AAT/NAP
Start	2444	End	5338
GI	6715723	Score	646
Exons	2444..2566, 2668..2839, 4283..4384, 4485..4633, 4738..4830, 4908..4975, 5066..5139, 5247..5338		
GI Descrip.	(AC016447) putative bifunctional nuclease [Arabidopsis thaliana]		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31317	Strand	+
Start	2426	End	5849
Name	OJ990407_02.9923.C34.o3.gp	Method	AAT/GAP
Start	5256	End	5696
GI	702658	Score	857
Exons	5256..5696		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31318	Strand	-
Start	1	End	682
Name	OJ990407_02.9923.C34.o1.np	Method	AAT/NAP
Start	1	End	655
GI	4099833	Score	309
Exons	1..210, 311..485, 560..655		
GI Descrip.	(U90265) bifunctional nuclease [Zinnia elegans]		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31318	Strand	-
Start	1	End	682
Name	OJ990407_02.9923.C34.o1.gs	Method	GENSCAN
Start	280	End	682
GI	none	Score	.88
Exons	280..485, 502..682		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34

Gene No.	31319	Strand	-
Start	3092	End	3192
Name	OJ990407_02.9923.C34.o2.gp	Method	AAT/GAP
Start	3092	End	3192
GI	LIB3477-003-P1-K1-E9	Score	122
Exons	3092..3192		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o2.tm	Method	TBLASTX:Maize
Start	128	End	5380
GI	none	Score	67
Exons	128..214, 339..497, 340..474, 560..604, 564..605, 2494..2565, 2495..2566, 2665..2841, 2667..2840, 4270..4371, 4271..4369, 4276..4380, 4495..4626, 4496..4654, 4729..4830, 4737..4832, 4907..4975, 4908..4976, 4908..4979, 5029..5151, 5067..5147, 5068..5148, 5245..5337, 5245..5373, 5246..5380		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o2.ts	Method	TBLASTX:Soybean
Start	128	End	4567
GI	none	Score	98
Exons	128..208, 309..497, 322..483, 554..601, 2480..2620, 2665..2814, 4285..4368, 4314..4367, 4484..4549, 4496..4567		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o2.tc	Method	TBLASTX:Cress
Start	4899	End	5335
GI	none	Score	66
Exons	4899..4973, 5065..5154, 5067..5147, 5245..5331, 5246..5335		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o3.tm	Method	TBLASTX:Maize
Start	5939	End	6342
GI	none	Score	44
Exons	5939..6007, 5988..6143, 6002..6142, 6253..6342, 6254..6337		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o1.tw	Method	TBLASTX:Wheat
Start	5960	End	6310
GI	none	Score	37
Exons	5960..6007, 6001..6138, 6002..6142, 6003..6143, 6253..6309, 6254..6310		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34

Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o3.ts	Method	TBLASTX:Soybean
Start	5996	End	6452
GI	none	Score	104
Exons	5996..6142, 6033..6143, 6253..6345, 6254..6343, 6416..6451, 6417..6452		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o3.gs	Method	GENSCAN
Start	6002	End	18227
GI	none	Score	.68
Exons	6002..6140, 6254..6342, 6422..6550, 6637..6720, 6895..7104, 7113..7307, 8226..8483, 8785..8916, 8997..9076, 9179..9308, 9396..9528, 9636..9757, 9872..10009, 10753..10938, 11902..11973, 12328..13141, 14463..14845, 15384..15531, 15659..15827, 18086..18227		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o4.tm	Method	TBLASTX:Maize
Start	6416	End	7018
GI	none	Score	168
Exons	6416..6550, 6423..6560, 6637..6660, 6650..6742, 6659..6736, 6823..6858, 6837..6854, 6895..6921, 6957..7010, 6962..7018		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o4.gp	Method	AAT/GAP
Start	6915	End	7275
GI	none	Score	480
Exons	6915..7029, 7113..7275		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o1.tm	Method	TBLASTX:Maize
Start	8020	End	12726
GI	none	Score	41
Exons	8020..8106, 8193..8300, 8196..8249, 8197..8250, 8243..8440, 8256..8450, 8256..8414, 8269..8478, 8269..8439, 8785..8916, 8785..8916, 8823..8918, 8990..9073, 8992..9072, 8997..9104, 8997..9077, 9173..9310, 9178..9318, 9179..9271, 9181..9309, 9183..9362, 9381..9530, 9394..9531, 9395..9529, 9397..9531, 9635..9757, 9636..9758, 9636..9758, 9637..9759, 9637..9759, 9867..10010, 9872..10012, 9873..10010, 10727..10948, 10744..10947, 10753..10950, 11833..11988, 11836..11988, 12556..12600, 12561..12629, 12676..12726, 12677..12721		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o3.np	Method	AAT/NAP

Start	8163	End	12786
GI	5902390	Score	1020
Exons	8163..8429, 8785..8916, 8997..9076, 9179..9308, 9396..9528, 9636..9757, 9872..10012, 10753..10938, 11836..11973, 12328..12786		
GI Descrip.	(AC008148) Unknown protein [Arabidopsis thaliana] gi|6453884|gb|AAF09067.1|AC011663_3 (AC011663) unknown protein [Arabidopsis thaliana]		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o5.gp	Method	AAT/GAP
Start	8239	End	10942
GI	6840_2.R1084	Score	2061
Exons	8239..8438, 8785..8916, 8997..9076, 9179..9308, 9396..9528, 9636..9757, 9872..10009, 10753..10942		
GI Descrip.	'5902390/gb|AAD55492.1|AC008148_2 1.0e-105 (AC008148) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o1.ts	Method	TBLASTX:Soybean
Start	8997	End	9949
GI	none	Score	99
Exons	8997..9074, 9189..9308, 9214..9309, 9381..9530, 9400..9516, 9635..9757, 9636..9758, 9872..9949, 9873..9944		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o1.tc	Method	TBLASTX:Cress
Start	9396	End	12720
GI	none	Score	114
Exons	9396..9530, 9397..9552, 9635..9676, 9695..9757, 9872..10012, 9873..10013, 10741..10863, 10840..10950, 10852..10947, 11833..11973, 11867..11989, 12676..12720		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o4.ts	Method	TBLASTX:Soybean
Start	10873	End	11979
GI	none	Score	88
Exons	10873..10947, 11833..11979, 11867..11956		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-
Start	6002	End	18227
Name	OJ990407_02.9923.C34.o6.gp	Method	AAT/GAP
Start	12450	End	12894
GI	none	Score	851
Exons	12450..12894		

Seq. No.	14705	Seq. ID	OJ990407_02.9923.C34
Gene No.	31320	Strand	-

Start	6002	End	18227
Name	OJ990407_02.9923.C34.o7.gp	Method	AAT/GAP
Start	17167	End	17231
GI	uC-osflcyp158c04a1	Score	91
Exons	17167..17231		
GI Descrip.	'4581164/gb|AAD24647.1|AC006220_3 2.0e-17 (AC006220) putative polyprotein [Arabidopsis thaliana]'		

Seq. No.	14706	Seq. ID	OJ990407_02.9923.C36
Gene No.	31321	Strand	+
Start	15	End	1149
Name	OJ990407_02.9923.C36.o1.np	Method	AAT/NAP
Start	15	End	1149
GI	6498441	Score	1642
Exons	15..1149		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	14706	Seq. ID	OJ990407_02.9923.C36
Gene No.	31321	Strand	+
Start	15	End	1149
Name	OJ990407_02.9923.C36.o1.gs	Method	GENSCAN
Start	17	End	1078
GI	none	Score	.74
Exons	17..1078		

Seq. No.	14706	Seq. ID	OJ990407_02.9923.C36
Gene No.	31321	Strand	+
Start	15	End	1149
Name	OJ990407_02.9923.C36.o1.tw	Method	TBLASTX:Wheat
Start	167	End	556
GI	none	Score	54
Exons	167..211, 218..316, 223..315, 283..522, 299..556		

Seq. No.	14706	Seq. ID	OJ990407_02.9923.C36
Gene No.	31321	Strand	+
Start	15	End	1149
Name	OJ990407_02.9923.C36.o1.tm	Method	TBLASTX:Maize
Start	206	End	454
GI	none	Score	196
Exons	206..454, 208..453		

Seq. No.	14707	Seq. ID	OJ990407_02.9923.C37
Gene No.	31322	Strand	-
Start	1	End	442
Name	OJ990407_02.9923.C37.o1.np	Method	AAT/NAP
Start	1	End	442
GI	5091513	Score	582
Exons	1..442		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	14707	Seq. ID	OJ990407_02.9923.C37
Gene No.	31322	Strand	-
Start	1	End	442
Name	OJ990407_02.9923.C37.o1.gs	Method	GENSCAN
Start	76	End	402

GI	none	Score	.9
Exons	76..402		

Seq. No.	14708	Seq. ID	OJ990617_09.9922.C1
Gene No.	31323	Strand	-
Start	144	End	2526
Name	OJ990617_09.9922.C1.o1.gs	Method	GENSCAN
Start	144	End	1826
GI	none	Score	.55
Exons	144..1826		

Seq. No.	14708	Seq. ID	OJ990617_09.9922.C1
Gene No.	31323	Strand	-
Start	144	End	2526
Name	OJ990617_09.9922.C1.o1.np	Method	AAT/NAP
Start	147	End	2526
GI	4680179	Score	2588
Exons	147..1906, 2505..2526		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14708	Seq. ID	OJ990617_09.9922.C1
Gene No.	31323	Strand	-
Start	144	End	2526
Name	OJ990617_09.9922.C1.o3.tw	Method	TBLASTX:Wheat
Start	192	End	525
GI	none	Score	81
Exons	192..524, 213..374, 244..525		

Seq. No.	14708	Seq. ID	OJ990617_09.9922.C1
Gene No.	31323	Strand	-
Start	144	End	2526
Name	OJ990617_09.9922.C1.o1.tm	Method	TBLASTX:Maize
Start	387	End	972
GI	none	Score	103
Exons	387..812, 388..585, 402..653, 640..813, 810..971, 817..972		

Seq. No.	14708	Seq. ID	OJ990617_09.9922.C1
Gene No.	31323	Strand	-
Start	144	End	2526
Name	OJ990617_09.9922.C1.o1.tw	Method	TBLASTX:Wheat
Start	525	End	1151
GI	none	Score	40
Exons	525..1151, 526..585, 534..1091, 643..1092		

Seq. No.	14708	Seq. ID	OJ990617_09.9922.C1
Gene No.	31323	Strand	-
Start	144	End	2526
Name	OJ990617_09.9922.C1.o2.tm	Method	TBLASTX:Maize
Start	1020	End	1312
GI	none	Score	163
Exons	1020..1310, 1023..1310, 1024..1311, 1025..1312		

Seq. No.	14708	Seq. ID	OJ990617_09.9922.C1
Gene No.	31323	Strand	-
Start	144	End	2526
Name	OJ990617_09.9922.C1.o1.ts	Method	TBLASTX:Soybean
Start	1110	End	1370

GI	none	Score	177
Exons	1110..1370, 1111..1359		

Seq. No.	14708	Seq. ID	OJ990617_09.9922.C1
Gene No.	31323	Strand	-
Start	144	End	2526
Name	OJ990617_09.9922.C1.o1.tc	Method	TBLASTX:Cress
Start	1134	End	1460
GI	none	Score	77
Exons	1134..1277, 1135..1266, 1278..1460		

Seq. No.	14708	Seq. ID	OJ990617_09.9922.C1
Gene No.	31323	Strand	-
Start	144	End	2526
Name	OJ990617_09.9922.C1.o2.tw	Method	TBLASTX:Wheat
Start	1158	End	1697
GI	none	Score	298
Exons	1158..1697, 1162..1515		

Seq. No.	14708	Seq. ID	OJ990617_09.9922.C1
Gene No.	31323	Strand	-
Start	144	End	2526
Name	OJ990617_09.9922.C1.o3.tm	Method	TBLASTX:Maize
Start	1725	End	1907
GI	none	Score	85
Exons	1725..1907, 1732..1875		

Seq. No.	14708	Seq. ID	OJ990617_09.9922.C1
Gene No.	31323	Strand	-
Start	144	End	2526
Name	OJ990617_09.9922.C1.o4.tw	Method	TBLASTX:Wheat
Start	1725	End	1907
GI	none	Score	124
Exons	1725..1907, 1732..1866		

Seq. No.	14709	Seq. ID	OJ990617_09.9922.C3
Gene No.	31324	Strand	+
Start	1	End	1919
Name	OJ990617_09.9922.C3.o2.np	Method	AAT/NAP
Start	1	End	1919
GI	6705984	Score	121
Exons	1..51, 282..367, 1721..1919		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	14709	Seq. ID	OJ990617_09.9922.C3
Gene No.	31325	Strand	-
Start	1	End	1162
Name	OJ990617_09.9922.C3.o1.np	Method	AAT/NAP
Start	1	End	1162
GI	2586082	Score	1006
Exons	1..1162		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		

Seq. No.	14709	Seq. ID	OJ990617_09.9922.C3
Gene No.	31325	Strand	-
Start	1	End	1162
Name	OJ990617_09.9922.C3.o1.tw	Method	TBLASTX:Wheat

Start	2	End	239
GI	none	Score	204
Exons	2..238, 9..239		

Seq. No.	14709	Seq. ID	OJ990617_09.9922.C3
Gene No.	31325	Strand	-
Start	1	End	1162
Name	OJ990617_09.9922.C3.o2.tm	Method	TBLASTX:Maize
Start	95	End	646
GI	none	Score	79
Exons	95..238, 96..254, 224..331, 266..325, 527..646		

Seq. No.	14709	Seq. ID	OJ990617_09.9922.C3
Gene No.	31325	Strand	-
Start	1	End	1162
Name	OJ990617_09.9922.C3.o1.gs	Method	GENSCAN
Start	97	End	1150
GI	none	Score	.98
Exons	97..1150		

Seq. No.	14709	Seq. ID	OJ990617_09.9922.C3
Gene No.	31325	Strand	-
Start	1	End	1162
Name	OJ990617_09.9922.C3.o3.tw	Method	TBLASTX:Wheat
Start	482	End	766
GI	none	Score	75
Exons	482..766, 608..751		

Seq. No.	14709	Seq. ID	OJ990617_09.9922.C3
Gene No.	31325	Strand	-
Start	1	End	1162
Name	OJ990617_09.9922.C3.o1.tc	Method	TBLASTX:Cress
Start	569	End	1090
GI	none	Score	77
Exons	569..943, 989..1090		

Seq. No.	14709	Seq. ID	OJ990617_09.9922.C3
Gene No.	31325	Strand	-
Start	1	End	1162
Name	OJ990617_09.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	647	End	1067
GI	none	Score	158
Exons	647..943, 657..893, 956..1066, 957..1067		

Seq. No.	14709	Seq. ID	OJ990617_09.9922.C3
Gene No.	31325	Strand	-
Start	1	End	1162
Name	OJ990617_09.9922.C3.o2.tw	Method	TBLASTX:Wheat
Start	767	End	1144
GI	none	Score	233
Exons	767..1144		

Seq. No.	14710	Seq. ID	OJ990617_09.9922.C4
Gene No.	31326	Strand	+
Start	1	End	114
Name	OJ990617_09.9922.C4.o1.gp	Method	AAT/GAP
Start	1	End	114

GI	5002953	Score	180
Exons	1..114		
GI Descrip.	4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	14711	Seq. ID	OJ990617_09.9922.C5
Gene No.	31327	Strand	-
Start	37	End	846
Name	OJ990617_09.9922.C5.o1.gs	Method	GENSCAN
Start	37	End	846
GI	none	Score	.95
Exons	37..846		

Seq. No.	14712	Seq. ID	OJ990617_09.9922.C6
Gene No.	31328	Strand	-
Start	480	End	623
Name	OJ990617_09.9922.C6.o1.gs	Method	GENSCAN
Start	480	End	623
GI	none	Score	.95
Exons	480..522, 566..623		

Seq. No.	14713	Seq. ID	OJ990617_09.9922.C7
Gene No.	31329	Strand	+
Start	1	End	1379
Name	OJ990617_09.9922.C7.o1.np	Method	AAT/NAP
Start	1	End	1366
GI	6742729	Score	950
Exons	1..164, 213..1366		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	14713	Seq. ID	OJ990617_09.9922.C7
Gene No.	31329	Strand	+
Start	1	End	1379
Name	OJ990617_09.9922.C7.o1.gs	Method	GENSCAN
Start	14	End	1245
GI	none	Score	.63
Exons	14..433, 613..1245		

Seq. No.	14713	Seq. ID	OJ990617_09.9922.C7
Gene No.	31329	Strand	+
Start	1	End	1379
Name	OJ990617_09.9922.C7.o2.tw	Method	TBLASTX:Wheat
Start	182	End	556
GI	none	Score	183
Exons	182..412, 211..411, 448..537, 449..556		

Seq. No.	14713	Seq. ID	OJ990617_09.9922.C7
Gene No.	31329	Strand	+
Start	1	End	1379
Name	OJ990617_09.9922.C7.o2.tm	Method	TBLASTX:Maize
Start	188	End	403
GI	none	Score	166
Exons	188..334, 217..324, 341..403		

Seq. No.	14713	Seq. ID	OJ990617_09.9922.C7
Gene No.	31329	Strand	+
Start	1	End	1379

Name	OJ990617_09.9922.C7.o1.gp	Method	AAT/GAP
Start	521	End	1320
GI	5002953	Score	945
Exons	521..651, 910..1320		
GI Descrip.	4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	14713	Seq. ID	OJ990617_09.9922.C7
Gene No.	31329	Strand	+
Start	1	End	1379
Name	OJ990617_09.9922.C7.o1.tw	Method	TBLASTX:Wheat
Start	565	End	1379
GI	none	Score	477
Exons	565..1077, 579..1025, 1096..1161, 1113..1160, 1170..1256, 1260..1379, 1295..1366		

Seq. No.	14713	Seq. ID	OJ990617_09.9922.C7
Gene No.	31329	Strand	+
Start	1	End	1379
Name	OJ990617_09.9922.C7.o1.tm	Method	TBLASTX:Maize
Start	576	End	891
GI	none	Score	261
Exons	576..848, 577..891		

Seq. No.	14713	Seq. ID	OJ990617_09.9922.C7
Gene No.	31329	Strand	+
Start	1	End	1379
Name	OJ990617_09.9922.C7.o1.tc	Method	TBLASTX:Cress
Start	822	End	1247
GI	none	Score	205
Exons	822..1025, 826..1077, 1096..1161, 1113..1160, 1170..1247		

Seq. No.	14714	Seq. ID	OJ990617_09.9922.C8
Gene No.	31330	Strand	+
Start	1555	End	4876
Name	OJ990617_09.9922.C8.o1.gs	Method	GENSCAN
Start	1555	End	4761
GI	none	Score	.55
Exons	1555..1684, 1773..1820, 1869..2506, 2965..3045, 3127..3948, 4068..4201, 4368..4539, 4645..4761		

Seq. No.	14714	Seq. ID	OJ990617_09.9922.C8
Gene No.	31330	Strand	+
Start	1555	End	4876
Name	OJ990617_09.9922.C8.o1.gp	Method	AAT/GAP
Start	4409	End	4876
GI	LIB3431-001-P1-N1-B5	Score	625
Exons	4409..4539, 4645..4876		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	14715	Seq. ID	OJ990617_09.9922.C9
Gene No.	31331	Strand	+
Start	626	End	733
Name	OJ990617_09.9922.C9.o1.gs	Method	GENSCAN
Start	626	End	733
GI	none	Score	.86

Exons	626..733		

Seq. No.	14715	Seq. ID	OJ990617_09.9922.C9
Gene No.	31332	Strand	+
Start	3814	End	3871
Name	OJ990617_09.9922.C9.o1.gp	Method	AAT/GAP
Start	3814	End	3871
GI	2800484	Score	67
Exons	3814..3871		
GI Descrip.	5803242/dbj|AP000399.1|AP000399 7.0e-10 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	14715	Seq. ID	OJ990617_09.9922.C9
Gene No.	31333	Strand	+
Start	5467	End	5993
Name	OJ990617_09.9922.C9.o2.gp	Method	AAT/GAP
Start	5467	End	5993
GI	uC-osf1M202048c12b1	Score	895
Exons	5467..5993		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 2.0e-16 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	14715	Seq. ID	OJ990617_09.9922.C9
Gene No.	31334	Strand	+
Start	6134	End	6201
Name	OJ990617_09.9922.C9.o3.gp	Method	AAT/GAP
Start	6134	End	6201
GI	uC-osroM202024h08a1	Score	78
Exons	6134..6201		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 5.0e-84 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	14715	Seq. ID	OJ990617_09.9922.C9
Gene No.	31335	Strand	+
Start	6494	End	21992
Name	OJ990617_09.9922.C9.o2.np	Method	AAT/NAP
Start	6494	End	21992
GI	5852175	Score	350
Exons	6494..7024, 10264..10339, 11912..12050, 12544..12592, 13167..13268, 13887..13919, 21847..21992		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	14715	Seq. ID	OJ990617_09.9922.C9
Gene No.	31335	Strand	+
Start	6494	End	21992
Name	OJ990617_09.9922.C9.o4.gs	Method	GENSCAN
Start	11446	End	12043
GI	none	Score	.87
Exons	11446..11573, 11809..12043		

Seq. No.	14715	Seq. ID	OJ990617_09.9922.C9
Gene No.	31335	Strand	+
Start	6494	End	21992
Name	OJ990617_09.9922.C9.o4.gp	Method	AAT/GAP
Start	12570	End	12799
GI	101153_1.R1084	Score	376
Exons	12570..12799		

GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		
Seq. No.	14715	Seq. ID	OJ990617_09.9922.C9
Gene No.	31335	Strand	+
Start	6494	End	21992
Name	OJ990617_09.9922.C9.o5.gp	Method	AAT/GAP
Start	13778	End	14101
GI	61605_3.R1084	Score	341
Exons	13778..14101		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		
Seq. No.	14715	Seq. ID	OJ990617_09.9922.C9
Gene No.	31335	Strand	+
Start	6494	End	21992
Name	OJ990617_09.9922.C9.o3.np	Method	AAT/NAP
Start	14227	End	16250
GI	6721512	Score	52
Exons	14227..14247, 16155..16250		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		
Seq. No.	14715	Seq. ID	OJ990617_09.9922.C9
Gene No.	31336	Strand	-
Start	1963	End	5218
Name	OJ990617_09.9922.C9.o2.gs	Method	GENSCAN
Start	1963	End	5218
GI	none	Score	.4
Exons	1963..2244, 2601..2731, 3031..3219, 3805..3860, 5184..5218		
Seq. No.	14715	Seq. ID	OJ990617_09.9922.C9
Gene No.	31337	Strand	-
Start	20985	End	21797
Name	OJ990617_09.9922.C9.o6.gs	Method	GENSCAN
Start	20985	End	21797
GI	none	Score	.97
Exons	20985..21797		
Seq. No.	14716	Seq. ID	OJ990617_09.9922.C10
Gene No.	31338	Strand	+
Start	1	End	1008
Name	OJ990617_09.9922.C10.o1.np	Method	AAT/NAP
Start	1	End	1008
GI	4680179	Score	690
Exons	1..287, 321..1008		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	14716	Seq. ID	OJ990617_09.9922.C10
Gene No.	31338	Strand	+
Start	1	End	1008
Name	OJ990617_09.9922.C10.o2.tw	Method	TBLASTX:Wheat
Start	234	End	503
GI	none	Score	65
Exons	234..284, 239..283, 339..503, 419..466		
Seq. No.	14716	Seq. ID	OJ990617_09.9922.C10
Gene No.	31338	Strand	+

Start	1	End	1008
Name	OJ990617_09.9922.C10.o1.tm	Method	TBLASTX:Maize
Start	342	End	665
GI	none	Score	182
Exons	342..665		

Seq. No.	14716	Seq. ID	OJ990617_09.9922.C10
Gene No.	31338	Strand	+
Start	1	End	1008
Name	OJ990617_09.9922.C10.o1.tw	Method	TBLASTX:Wheat
Start	528	End	932
GI	none	Score	120
Exons	528..794, 795..932, 810..881,	866..925	

Seq. No.	14717	Seq. ID	OJ990617_09.9922.C11
Gene No.	31339	Strand	-
Start	1	End	1232
Name	OJ990617_09.9922.C11.o1.np	Method	AAT/NAP
Start	1	End	1232
GI	4680203	Score	914
Exons	1..1232		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	14717	Seq. ID	OJ990617_09.9922.C11
Gene No.	31339	Strand	-
Start	1	End	1232
Name	OJ990617_09.9922.C11.o1.tw	Method	TBLASTX:Wheat
Start	14	End	1121
GI	none	Score	192
Exons	14..328, 15..260, 1038..1121		

Seq. No.	14717	Seq. ID	OJ990617_09.9922.C11
Gene No.	31339	Strand	-
Start	1	End	1232
Name	OJ990617_09.9922.C11.o1.tm	Method	TBLASTX:Maize
Start	54	End	541
GI	none	Score	145
Exons	54..326, 56..331, 476..541		

Seq. No.	14717	Seq. ID	OJ990617_09.9922.C11
Gene No.	31339	Strand	-
Start	1	End	1232
Name	OJ990617_09.9922.C11.o1.tc	Method	TBLASTX:Cress
Start	101	End	452
GI	none	Score	59
Exons	101..448, 102..176, 143..247,	198..257, 294..452	

Seq. No.	14717	Seq. ID	OJ990617_09.9922.C11
Gene No.	31339	Strand	-
Start	1	End	1232
Name	OJ990617_09.9922.C11.o1.ts	Method	TBLASTX:Soybean
Start	179	End	598
GI	none	Score	63
Exons	179..445, 191..424, 476..598,	477..596	

Seq. No.	14717	Seq. ID	OJ990617_09.9922.C11
Gene No.	31339	Strand	-

Start	1	End	1232
Name	OJ990617_09.9922.C11.o2.tw	Method	TBLASTX:Wheat
Start	341	End	787
GI	none	Score	44
Exons	341..439, 341..448, 476..787, 477..638		

Seq. No.	14717	Seq. ID	OJ990617_09.9922.C11
Gene No.	31339	Strand	-
Start	1	End	1232
Name	OJ990617_09.9922.C11.o1.gs	Method	GENSCAN
Start	460	End	1232
GI	none	Score	.57
Exons	460..639, 803..1232		

Seq. No.	14718	Seq. ID	OJ990617_09.9922.C12
Gene No.	31340	Strand	+
Start	1	End	1709
Name	OJ990617_09.9922.C12.o1.np	Method	AAT/NAP
Start	1	End	1709
GI	5922636	Score	41
Exons	1..64, 1036..1174, 1667..1709		
GI Descrip.	(AP000492) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016869|dbj|BAA85212.1| (AP000570) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14718	Seq. ID	OJ990617_09.9922.C12
Gene No.	31341	Strand	-
Start	716	End	1166
Name	OJ990617_09.9922.C12.o1.gs	Method	GENSCAN
Start	716	End	1166
GI	none	Score	.52
Exons	716..807, 888..1083, 1092..1166		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31342	Strand	+
Start	6277	End	6561
Name	OJ990617_09.9922.C13.o2.gs	Method	GENSCAN
Start	6277	End	6561
GI	none	Score	.81
Exons	6277..6561		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31343	Strand	-
Start	1	End	5294
Name	OJ990617_09.9922.C13.o1.np	Method	AAT/NAP
Start	1	End	2966
GI	4680179	Score	3125
Exons	1..1850, 1884..2966		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31343	Strand	-
Start	1	End	5294
Name	OJ990617_09.9922.C13.o1.gs	Method	GENSCAN
Start	84	End	5115

GI	none	Score	.73
Exons	84..1563, 1772..1982, 2061..2966, 3192..3220, 3259..4024, 5044..5115		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31343	Strand	-
Start	1	End	5294
Name	OJ990617_09.9922.C13.o1.gp	Method	AAT/GAP
Start	4912	End	5294
GI	uC-osflcyp033a04b1	Score	700
Exons	4912..5294		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o2.tm	Method	TBLASTX:Maize
Start	47	End	9306
GI	none	Score	174
Exons	47..400, 50..400, 51..401, 8943..9305, 8952..9305, 8956..9306		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o3.tw	Method	TBLASTX:Wheat
Start	47	End	9377
GI	none	Score	216
Exons	47..424, 47..472, 51..440, 8955..9377, 8956..9345		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o3.ts	Method	TBLASTX:Soybean
Start	221	End	9371
GI	none	Score	94
Exons	221..466, 222..449, 9126..9371, 9226..9354		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o3.tm	Method	TBLASTX:Maize
Start	437	End	9446
GI	none	Score	50
Exons	437..751, 480..530, 567..611, 758..937, 783..929, 9342..9446		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o5.tw	Method	TBLASTX:Wheat
Start	473	End	9446
GI	none	Score	267
Exons	473..775, 489..773, 667..774, 9378..9446		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446

Name	OJ990617_09.9922.C13.o1.ts	Method	TBLASTX:Soybean
Start	488	End	9446
GI	none	Score	184
Exons	488..847, 489..779, 807..845,	851..883,	852..881, 9393..9446

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o4.tw	Method	TBLASTX:Wheat
Start	824	End	1310
GI	none	Score	272
Exons	824..1201, 867..1310, 1256..1306		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o5.tm	Method	TBLASTX:Maize
Start	1005	End	1295
GI	none	Score	185
Exons	1005..1295, 1007..1294		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o8.tw	Method	TBLASTX:Wheat
Start	1406	End	1823
GI	none	Score	69
Exons	1406..1447, 1475..1612, 1476..1589,	1614..1823,	1615..1767

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o7.tw	Method	TBLASTX:Wheat
Start	2142	End	2500
GI	none	Score	112
Exons	2142..2492, 2299..2493, 2324..2500		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o6.tm	Method	TBLASTX:Maize
Start	2187	End	2492
GI	none	Score	90
Exons	2187..2492, 2362..2478		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o9.tw	Method	TBLASTX:Wheat
Start	2527	End	2786
GI	none	Score	109
Exons	2527..2724, 2529..2726, 2739..2786		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o3.gs	Method	GENSCAN

Start	7371	End	9425
GI	none	Score	.47
Exons	7371..8657, 8703..9425		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o2.np	Method	AAT/NAP
Start	7374	End	9446
GI	4680179	Score	2997
Exons	7374..9446		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o6.tw	Method	TBLASTX:Wheat
Start	7419	End	7752
GI	none	Score	124
Exons	7419..7751, 7440..7748, 7483..7752		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o1.tm	Method	TBLASTX:Maize
Start	7599	End	8198
GI	none	Score	115
Exons	7599..8039, 7614..7877, 7615..8040, 8037..8198, 8044..8190		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o1.tw	Method	TBLASTX:Wheat
Start	7752	End	8378
GI	none	Score	293
Exons	7752..8378, 7753..8322		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o4.tm	Method	TBLASTX:Maize
Start	8247	End	8539
GI	none	Score	201
Exons	8247..8537, 8251..8538, 8378..8539		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o2.ts	Method	TBLASTX:Soybean
Start	8337	End	8597
GI	none	Score	153
Exons	8337..8597, 8338..8592		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o1.tc	Method	TBLASTX:Cress

Start	8361	End	8678
GI	none	Score	85
Exons	8361..8504, 8362..8502, 8505..8678		

Seq. No.	14719	Seq. ID	OJ990617_09.9922.C13
Gene No.	31344	Strand	-
Start	7371	End	9446
Name	OJ990617_09.9922.C13.o2.tw	Method	TBLASTX:Wheat
Start	8385	End	8952
GI	none	Score	338
Exons	8385..8921, 8386..8952		

Seq. No.	14720	Seq. ID	OJ990617_09.9922.C14
Gene No.	31345	Strand	-
Start	1	End	761
Name	OJ990617_09.9922.C14.o1.np	Method	AAT/NAP
Start	1	End	588
GI	5042447	Score	424
Exons	1..588		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	14720	Seq. ID	OJ990617_09.9922.C14
Gene No.	31345	Strand	-
Start	1	End	761
Name	OJ990617_09.9922.C14.o1.tw	Method	TBLASTX:Wheat
Start	2	End	352
GI	none	Score	112
Exons	2..259, 3..260, 237..290, 256..351, 257..352		

Seq. No.	14720	Seq. ID	OJ990617_09.9922.C14
Gene No.	31345	Strand	-
Start	1	End	761
Name	OJ990617_09.9922.C14.o1.gs	Method	GENSCAN
Start	250	End	761
GI	none	Score	.94
Exons	250..585, 756..761		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31346	Strand	+
Start	1	End	5085
Name	OJ990617_09.9922.C15.o1.np	Method	AAT/NAP
Start	1	End	2351
GI	2586082	Score	2488
Exons	1..345, 373..780, 820..2351		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31346	Strand	+
Start	1	End	5085
Name	OJ990617_09.9922.C15.o1.gs	Method	GENSCAN
Start	294	End	5085
GI	none	Score	.72
Exons	294..747, 820..2265, 3056..3171, 3934..4031, 4293..4578, 4921..5085		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31346	Strand	+

Start	1	End	5085
Name	OJ990617_09.9922.C15.o3.np	Method	AAT/NAP
Start	3746	End	5058
GI	6069646	Score	280
Exons	3746..3783, 4065..5058		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31347	Strand	+
Start	9519	End	19730
Name	OJ990617_09.9922.C15.o3.gs	Method	GENSCAN
Start	9519	End	19730
GI	none	Score	.68
Exons	9519..9605, 10041..10103, 10299..10382, 10654..10761, 10852..11024, 11774..11889, 12242..12312, 12400..12462, 12917..13018, 13939..14214, 14309..14383, 15058..15076, 15106..15188, 15686..15895, 17501..17733, 18096..18237, 18546..19118, 19353..19507, 19561..19592, 19660..19730		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31347	Strand	+
Start	9519	End	19730
Name	OJ990617_09.9922.C15.o4.np	Method	AAT/NAP
Start	9519	End	14899
GI	2501850	Score	1617
Exons	9519..9605, 10041..10103, 10299..10382, 10654..10761, 10852..11024, 11774..11885, 12232..12312, 12400..12462, 12917..13018, 13756..13880, 14004..14214, 14309..14383, 14852..14899		
GI Descrip.	(AF012823) GDP dissociation inhibitor [Nicotiana tabacum]		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31347	Strand	+
Start	9519	End	19730
Name	OJ990617_09.9922.C15.o2.gp	Method	AAT/GAP
Start	9609	End	9676
GI	53415_1.R1084	Score	63
Exons	9609..9676		
GI Descrip.	'130897/sp|P20664|PRI1_MOUSE 9.0e-18 DNA PRIMASE SMALL SUBUNIT (DNA PRIMASE 49 KD SUBUNIT) (P49) >gi_423418_pir__D46642 DNA primase (EC 2.7.7.-) 46K chain - mouse >gi_303661_dbj_BAA02744.1_ (D13544) primase small subunit [Mus musculus]'		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31347	Strand	+
Start	9519	End	19730
Name	OJ990617_09.9922.C15.o3.gp	Method	AAT/GAP
Start	14565	End	14703
GI	none	Score	274
Exons	14565..14703		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15

Gene No.	31347	Strand	+
Start	9519	End	19730
Name	OJ990617_09.9922.C15.o6.np	Method	AAT/NAP
Start	18118	End	19536
GI	6911848	Score	1173
Exons	18118..18237, 18546..19118, 19353..19536		
GI Descrip.	(AL138649) n-acetylglucosaminyl-phosphatidylinositol-like protein [Arabidopsis thaliana]		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31348	Strand	-
Start	9460	End	9724
Name	OJ990617_09.9922.C15.o1.gp	Method	AAT/GAP
Start	9460	End	9724
GI	uC-osflM202075d10b1	Score	256
Exons	9460..9610, 9700..9724		
GI Descrip.	'3355623/emb|CAA03964| 1.0e-17 (AJ000240) partial sequence, homology to GDP dissociation inhibitor [Hordeum vulgare]'		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o2.ts	Method	TBLASTX:Soybean
Start	822	End	1322
GI	5509260	Score	418
Exons	822..1322, 944..1108, 1150..1281		
GI Descrip.	-		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o7.tm	Method	TBLASTX:Maize
Start	869	End	1121
GI	none	Score	219
Exons	869..1120, 870..1121		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o3.tc	Method	TBLASTX:Cress
Start	931	End	1208
GI	none	Score	295
Exons	931..996, 938..1189, 939..1208, 1018..1200		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o3.tw	Method	TBLASTX:Wheat
Start	989	End	1502
GI	none	Score	291
Exons	989..1117, 990..1334, 1150..1215, 1326..1502		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o3.tm	Method	TBLASTX:Maize
Start	1122	End	1568

GI	none	Score	403
Exons	1122..1568		
Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o4.tc	Method	TBLASTX:Cress
Start	1389	End	1637
GI	none	Score	196
Exons	1389..1637, 1389..1529, 1565..1636		
Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o1.tw	Method	TBLASTX:Wheat
Start	1503	End	1940
GI	none	Score	473
Exons	1503..1940, 1508..1939		
Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o5.tm	Method	TBLASTX:Maize
Start	1637	End	1829
GI	none	Score	279
Exons	1637..1828, 1638..1829		
Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o2.tc	Method	TBLASTX:Cress
Start	1683	End	2327
GI	none	Score	124
Exons	1683..1886, 1896..1967, 1977..2099, 2133..2327		
Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o1.ts	Method	TBLASTX:Soybean
Start	1704	End	2381
GI	none	Score	546
Exons	1704..2318, 1706..1831, 1898..2308, 2352..2381		
Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o4.tm	Method	TBLASTX:Maize
Start	1830	End	2294
GI	none	Score	42
Exons	1830..1892, 1871..2005, 1872..2000, 2006..2293, 2007..2294		
Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o6.tm	Method	TBLASTX:Maize
Start	4459	End	5049
GI	none	Score	81

Exons 4459..4548, 4603..4791, 4906..5049

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o1.tc	Method	TBLASTX:Cress
Start	9506	End	14419
GI	none	Score	135

Exons 9506..9610, 9507..9611, 10032..10103, 10038..10106, 10296..10397, 10298..10393, 10653..10763, 10653..10763, 10654..10764, 10831..11025, 10860..11021, 11774..11908, 11775..11900, 12226..12312, 12231..12308, 12391..12471, 12395..12472, 12396..12476, 12914..13024, 12919..13020, 13753..13899, 13755..13892, 13765..13893, 13935..14213, 13966..14214, 14297..14419, 14308..14382

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o2.tm	Method	TBLASTX:Maize
Start	9512	End	14419
GI	none	Score	146

Exons 9512..9607, 9513..9611, 10018..10101, 10038..10106, 10038..10103, 10040..10105, 10296..10382, 10298..10387, 10653..10751, 10653..10760, 10654..10764, 10831..11025, 10849..11004, 10857..11021, 11766..11903, 11768..11884, 11774..11908, 11775..11900, 12226..12312, 12240..12314, 12240..12311, 12391..12471, 12399..12473, 12914..13024, 12914..12997, 12919..13020, 13016..13063, 13753..13899, 13755..13892, 13765..13893, 13965..14087, 13998..14213, 14005..14214, 14297..14419, 14308..14400

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o4.ts	Method	TBLASTX:Soybean
Start	9518	End	13824
GI	none	Score	135

Exons 9518..9607, 9519..9611, 10038..10106, 10038..10103, 10040..10105, 10296..10382, 10298..10387, 10653..10763, 10653..10763, 10654..10764, 10831..11025, 10849..11019, 10857..11021, 11774..11908, 11775..11900, 12226..12312, 12234..12314, 12237..12308, 12388..12471, 12391..12471, 12396..12491, 12398..12472, 12914..13024, 12919..13020, 13753..13824, 13755..13823

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o2.tw	Method	TBLASTX:Wheat
Start	10036	End	10986
GI	none	Score	56

Exons 10036..10092, 10039..10092, 10040..10099, 10044..10106, 10287..10382, 10295..10387, 10296..10382, 10653..10760, 10653..10760, 10654..10764, 10831..10986, 10851..10985

Seq. No. 14721 Seq. ID OJ990617_09.9922.C15

Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o4.tw	Method	TBLASTX:Wheat
Start	12259	End	14081
GI	none	Score	101
Exons	12259..12312, 12261..12311, 12391..12471, 12398..12472, 12914..13024, 12919..13020, 13744..13899, 13755..13892, 13765..13893, 13966..14079, 13998..14081		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o5.np	Method	AAT/NAP
Start	13092	End	17842
GI	2415368	Score	17
Exons	13092..13154, 15768..15866, 17568..17761, 17798..17842		
GI Descrip.	(AF015276) protease/reverse transcriptase [Volvox carteri]		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31349	Strand	-
Start	13092	End	17842
Name	OJ990617_09.9922.C15.o3.ts	Method	TBLASTX:Soybean
Start	13825	End	14932
GI	none	Score	102
Exons	13825..13899, 13830..13892, 13852..13890, 13965..14126, 13966..14214, 13998..14213, 14014..14229, 14297..14419, 14308..14400, 14834..14932		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31350	Strand	
Start	18130	End	18668
Name	OJ990617_09.9922.C15.o5.ts	Method	TBLASTX:Soybean
Start	18130	End	18668
GI	none	Score	190
Exons	18130..18240, 18132..18239, 18543..18668, 18543..18659, 18545..18661		

Seq. No.	14721	Seq. ID	OJ990617_09.9922.C15
Gene No.	31351	Strand	
Start	18632	End	19121
Name	OJ990617_09.9922.C15.o1.tm	Method	TBLASTX:Maize
Start	18632	End	19121
GI	none	Score	626
Exons	18632..19120, 18632..19114, 18633..19121		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31352	Strand	+
Start	247	End	2042
Name	OJ990617_09.9922.C16.o1.np	Method	AAT/NAP
Start	247	End	1192
GI	6911848	Score	425
Exons	247..343, 436..557, 726..829, 940..1030, 1103..1192		
GI Descrip.	(AL138649) n-acetylglucosaminyl-phosphatidylinositol-like protein [Arabidopsis thaliana]		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31352	Strand	+

Start	247	End	2042
Name	OJ990617_09.9922.C16.o1.gs	Method	GENSCAN
Start	249	End	2042
GI	none	Score	.6
Exons	249..339, 441..557, 726..829, 1871..2042		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31353	Strand	+
Start	10393	End	10716
Name	OJ990617_09.9922.C16.o4.gs	Method	GENSCAN
Start	10393	End	10716
GI	none	Score	.72
Exons	10393..10490, 10602..10716		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31354	Strand	-
Start	513	End	5395
Name	OJ990617_09.9922.C16.o2.np	Method	AAT/NAP
Start	513	End	5395
GI	6433991	Score	347
Exons	513..590, 2559..2659, 2852..2954, 3029..3172, 3244..3331, 4235..4332, 4416..4534, 5132..5241, 5334..5395		
GI Descrip.	(AL132798) mak16-like protein [Schizosaccharomyces pombe]		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31354	Strand	-
Start	513	End	5395
Name	OJ990617_09.9922.C16.o1.gp	Method	AAT/GAP
Start	1955	End	2654
GI	27063_1.R1084	Score	938
Exons	1955..2344, 2547..2654		
GI Descrip.	'1109826/gb|AAB47596.1| 3.0e-16 (U41534) similar to yeast MAK16 protein (SP:MK16_YEAST,P10962) [Caenorhabditis elegans]'		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31354	Strand	-
Start	513	End	5395
Name	OJ990617_09.9922.C16.o2.gs	Method	GENSCAN
Start	2297	End	5392
GI	none	Score	.85
Exons	2297..2344, 2547..2659, 2852..2954, 3038..3172, 3244..3331, 4235..4332, 4416..4534, 5132..5241, 5334..5392		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31354	Strand	-
Start	513	End	5395
Name	OJ990617_09.9922.C16.o2.gp	Method	AAT/GAP
Start	3046	End	4456
GI	427797	Score	640
Exons	3046..3172, 3244..3331, 4235..4332, 4416..4456		
GI Descrip.	1109826/gb|AAB47596.1| 3.0e-16 (U41534) similar to yeast MAK16 protein (SP:MK16_YEAST,P10962) [Caenorhabditis elegans]		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31355	Strand	-
Start	6479	End	9717
Name	OJ990617_09.9922.C16.o3.gs	Method	GENSCAN

Start	6479	End	9717
GI	none	Score	.61
Exons	6479..6578, 7627..7727, 7906..8091, 8416..8547, 9661..9717		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31356	Strand	-
Start	11332	End	14723
Name	OJ990617_09.9922.C16.o2.tm	Method	TBLASTX:Maize
Start	246	End	978
GI	none	Score	150
Exons	246..395, 247..342, 438..560, 440..571, 450..560, 725..841, 726..842, 726..830, 728..841, 938..976, 940..978		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31356	Strand	-
Start	11332	End	14723
Name	OJ990617_09.9922.C16.o2.ts	Method	TBLASTX:Soybean
Start	720	End	1132
GI	none	Score	131
Exons	720..842, 734..841, 938..1030, 940..1029, 1100..1132, 1102..1131		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31356	Strand	-
Start	11332	End	14723
Name	OJ990617_09.9922.C16.o1.tm	Method	TBLASTX:Maize
Start	2541	End	5395
GI	none	Score	79
Exons	2541..2660, 2545..2667, 2897..2920, 3035..3172, 3062..3196, 3073..3174, 3238..3336, 3247..3330, 4212..4331, 4231..4332, 4234..4332, 4396..4539, 4416..4535, 5121..5252, 5128..5244, 5333..5395, 5334..5381		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31356	Strand	-
Start	11332	End	14723
Name	OJ990617_09.9922.C16.o1.ts	Method	TBLASTX:Soybean
Start	2541	End	5395
GI	none	Score	79
Exons	2541..2660, 2545..2667, 2897..2920, 3035..3172, 3062..3196, 3073..3174, 3238..3336, 3247..3330, 4212..4331, 4231..4332, 4234..4332, 4396..4539, 4416..4535, 5121..5252, 5128..5244, 5333..5395, 5334..5381		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31356	Strand	-
Start	11332	End	14723
Name	OJ990617_09.9922.C16.o3.np	Method	AAT/NAP
Start	11332	End	14723
GI	4680182	Score	1222
Exons	11332..11355, 12584..13091, 13167..13576, 13646..13818, 13873..14723		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	14722	Seq. ID	OJ990617_09.9922.C16
Gene No.	31356	Strand	-
Start	11332	End	14723
Name	OJ990617_09.9922.C16.o3.tm	Method	TBLASTX:Maize

Start	14202	End	14642
GI	none	Score	62
Exons	14202..14474, 14380..14463, 14526..14642		

Seq. No.	14723	Seq. ID	OJ990617_09.9922.C17
Gene No.	31357	Strand	+
Start	80	End	276
Name	OJ990617_09.9922.C17.o1.gs	Method	GENSCAN
Start	80	End	276
GI	none	Score	.89
Exons	80..121, 194..276		

Seq. No.	14724	Seq. ID	OJ990617_09.9922.C19
Gene No.	31358	Strand	+
Start	1	End	393
Name	OJ990617_09.9922.C19.o1.np	Method	AAT/NAP
Start	1	End	393
GI	4680186	Score	325
Exons	1..39, 167..393		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	14724	Seq. ID	OJ990617_09.9922.C19
Gene No.	31358	Strand	+
Start	1	End	393
Name	OJ990617_09.9922.C19.o1.gs	Method	GENSCAN
Start	286	End	346
GI	none	Score	.45
Exons	286..346		

Seq. No.	14724	Seq. ID	OJ990617_09.9922.C19
Gene No.	31359	Strand	-
Start	1	End	326
Name	OJ990617_09.9922.C19.o1.gp	Method	AAT/GAP
Start	1	End	326
GI	uC-osflcyp033a04b1	Score	613
Exons	1..326		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14725	Seq. ID	OJ990617_09.9922.C20
Gene No.	31360	Strand	+
Start	673	End	1055
Name	OJ990617_09.9922.C20.o2.gp	Method	AAT/GAP
Start	673	End	1055
GI	uC-osflcyp033a04b1	Score	700
Exons	673..1055		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14725	Seq. ID	OJ990617_09.9922.C20
Gene No.	31361	Strand	-
Start	606	End	805
Name	OJ990617_09.9922.C20.o1.np	Method	AAT/NAP
Start	606	End	805
GI	4680186	Score	324
Exons	606..805		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	14725	Seq. ID	OJ990617_09.9922.C20
Gene No.	31361	Strand	-
Start	606	End	805
Name	OJ990617_09.9922.C20.o1.gs	Method	GENSCAN
Start	653	End	713
GI	none	Score	.5
Exons	653..713		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31362	Strand	-
Start	1	End	3448
Name	OJ990617_09.9922.C21.o1.np	Method	AAT/NAP
Start	1	End	3448
GI	4680179	Score	2966
Exons	1..75, 448..3121, 3403..3448		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o3.ts	Method	TBLASTX:Soybean
Start	434	End	691
GI	none	Score	198
Exons	434..691		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o5.tw	Method	TBLASTX:Wheat
Start	434	End	598
GI	none	Score	107
Exons	434..598, 449..580, 459..596		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o1.tm	Method	TBLASTX:Maize
Start	443	End	817
GI	none	Score	90
Exons	443..817, 449..610, 459..764, 677..775		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o2.tw	Method	TBLASTX:Wheat
Start	599	End	1000
GI	none	Score	319
Exons	599..961, 600..959, 604..981, 665..1000		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o1.ts	Method	TBLASTX:Soybean
Start	713	End	1108
GI	none	Score	173
Exons	713..964, 723..956, 909..1067, 1019..1072, 1029..1070,		

1075..1107, 1076..1108, 1076..1108

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o2.tm	Method	TBLASTX:Maize
Start	1019	End	1466
GI	none	Score	71
Exons	1019..1462, 1224..1466		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o1.tw	Method	TBLASTX:Wheat
Start	1049	End	1532
GI	none	Score	235
Exons	1049..1531, 1052..1528, 1092..1532		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o2.ts	Method	TBLASTX:Soybean
Start	1181	End	1495
GI	none	Score	198
Exons	1181..1495		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o4.tm	Method	TBLASTX:Maize
Start	1469	End	1660
GI	none	Score	106
Exons	1469..1660, 1515..1622		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o4.tw	Method	TBLASTX:Wheat
Start	1664	End	2017
GI	none	Score	246
Exons	1664..2017		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o3.tw	Method	TBLASTX:Wheat
Start	2351	End	2704
GI	none	Score	73
Exons	2351..2701, 2507..2704		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o3.tm	Method	TBLASTX:Maize
Start	2396	End	2701
GI	none	Score	244
Exons	2396..2701		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o6.tw	Method	TBLASTX:Wheat
Start	2753	End	2951
GI	none	Score	128
Exons	2753..2935, 2754..2951		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o2.gs	Method	GENSCAN
Start	3390	End	4184
GI	none	Score	.74
Exons	3390..4184		

Seq. No.	14726	Seq. ID	OJ990617_09.9922.C21
Gene No.	31363	Strand	-
Start	3390	End	4184
Name	OJ990617_09.9922.C21.o2.np	Method	AAT/NAP
Start	3393	End	4184
GI	4512231	Score	1300
Exons	3393..4184		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	14727	Seq. ID	OJ990617_08.9926.C1
Gene No.	31364	Strand	+
Start	316	End	1245
Name	OJ990617_08.9926.C1.o1.gs	Method	GENSCAN
Start	316	End	1245
GI	none	Score	.45
Exons	316..485, 1171..1245		

Seq. No.	14728	Seq. ID	OJ990617_08.9926.C2
Gene No.	31365	Strand	-
Start	563	End	653
Name	OJ990617_08.9926.C2.o1.gs	Method	GENSCAN
Start	563	End	653
GI	none	Score	.92
Exons	563..653		

Seq. No.	14729	Seq. ID	OJ990617_08.9926.C4
Gene No.	31366	Strand	+
Start	1	End	692
Name	OJ990617_08.9926.C4.o1.np	Method	AAT/NAP
Start	1	End	692
GI	6498441	Score	1116
Exons	1..692		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	14729	Seq. ID	OJ990617_08.9926.C4
Gene No.	31366	Strand	+
Start	1	End	692
Name	OJ990617_08.9926.C4.o1.gs	Method	GENSCAN

Start	15	End	601
GI	none	Score	.59
Exons	15..601		

Seq. No.	14729	Seq. ID	OJ990617_08.9926.C4
Gene No.	31366	Strand	+
Start	1	End	692
Name	OJ990617_08.9926.C4.o1.tw	Method	TBLASTX:Wheat
Start	300	End	692
GI	none	Score	277
Exons	300..692, 414..593, 476..610		

Seq. No.	14729	Seq. ID	OJ990617_08.9926.C4
Gene No.	31366	Strand	+
Start	1	End	692
Name	OJ990617_08.9926.C4.o1.tm	Method	TBLASTX:Maize
Start	402	End	692
GI	none	Score	332
Exons	402..692, 446..688, 522..692		

Seq. No.	14730	Seq. ID	OJ990617_08.9926.C5
Gene No.	31367	Strand	-
Start	1	End	763
Name	OJ990617_08.9926.C5.o1.np	Method	AAT/NAP
Start	1	End	763
GI	6498441	Score	897
Exons	1..549, 646..763		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	14730	Seq. ID	OJ990617_08.9926.C5
Gene No.	31367	Strand	-
Start	1	End	763
Name	OJ990617_08.9926.C5.o1.gs	Method	GENSCAN
Start	24	End	667
GI	none	Score	.5
Exons	24..667		

Seq. No.	14730	Seq. ID	OJ990617_08.9926.C5
Gene No.	31367	Strand	-
Start	1	End	763
Name	OJ990617_08.9926.C5.o1.tm	Method	TBLASTX:Maize
Start	333	End	693
GI	none	Score	52
Exons	333..416, 334..372, 435..689,	442..693	

Seq. No.	14730	Seq. ID	OJ990617_08.9926.C5
Gene No.	31367	Strand	-
Start	1	End	763
Name	OJ990617_08.9926.C5.o1.ts	Method	TBLASTX:Soybean
Start	387	End	698
GI	none	Score	219
Exons	387..698		

Seq. No.	14730	Seq. ID	OJ990617_08.9926.C5
Gene No.	31367	Strand	-

Start	1	End	763
Name	OJ990617_08.9926.C5.o1.tw	Method	TBLASTX:Wheat
Start	417	End	699
GI	none	Score	187
Exons	417..698, 442..699		

Seq. No.	14731	Seq. ID	OJ990617_08.9926.C8
Gene No.	31368	Strand	+
Start	1	End	386
Name	OJ990617_08.9926.C8.o1.np	Method	AAT/NAP
Start	1	End	374
GI	5734743	Score	245
Exons	1..110, 201..374		
GI Descrip.	(AC007651) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	14731	Seq. ID	OJ990617_08.9926.C8
Gene No.	31368	Strand	+
Start	1	End	386
Name	OJ990617_08.9926.C8.o1.tc	Method	TBLASTX:Cress
Start	65	End	386
GI	none	Score	62
Exons	65..124, 66..113, 176..364, 198..365, 198..386		

Seq. No.	14731	Seq. ID	OJ990617_08.9926.C8
Gene No.	31368	Strand	+
Start	1	End	386
Name	OJ990617_08.9926.C8.o1.ts	Method	TBLASTX:Soybean
Start	65	End	383
GI	none	Score	69
Exons	65..124, 66..113, 159..185, 176..364, 198..365, 198..383		

Seq. No.	14731	Seq. ID	OJ990617_08.9926.C8
Gene No.	31368	Strand	+
Start	1	End	386
Name	OJ990617_08.9926.C8.o1.gs	Method	GENSCAN
Start	201	End	342
GI	none	Score	.78
Exons	201..342		

Seq. No.	14732	Seq. ID	OJ990617_08.9926.C9
Gene No.	31369	Strand	-
Start	76	End	510
Name	OJ990617_08.9926.C9.o1.gs	Method	GENSCAN
Start	76	End	510
GI	none	Score	.59
Exons	76..510		

Seq. No.	14733	Seq. ID	OJ990617_08.9926.C11
Gene No.	31370	Strand	-
Start	461	End	1081
Name	OJ990617_08.9926.C11.o1.gs	Method	GENSCAN
Start	461	End	1081
GI	none	Score	.84
Exons	461..480, 646..857, 1047..1081		

Seq. No.	14734	Seq. ID	OJ990617_08.9926.C12
Gene No.	31371	Strand	-

Start	6000	End	6089
Name	OJ990617_08.9926.C12.o1.gp	Method	AAT/GAP
Start	6000	End	6089
GI	69953_1.R1084	Score	122
Exons	6000..6089		
GI Descrip.	'5295936/dbj|AB026295.2|AB026295 7.0e-34 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	14735	Seq. ID	OJ990617_08.9926.C13
Gene No.	31372	Strand	-
Start	2017	End	4414
Name	OJ990617_08.9926.C13.o1.np	Method	AAT/NAP
Start	2010	End	4414
GI	2388561	Score	657
Exons	2010..2180, 2656..2841, 2951..3067, 3344..3498, 4199..4414		
GI Descrip.	(AC000098) Similar to Arabidopsis hypothetical protein PID:e326839 (gb|Z97337). [Arabidopsis thaliana]		

Seq. No.	14735	Seq. ID	OJ990617_08.9926.C13
Gene No.	31372	Strand	-
Start	2017	End	4414
Name	OJ990617_08.9926.C13.o1.tm	Method	TBLASTX:Maize
Start	2013	End	4359
GI	none	Score	87
Exons	2013..2186, 2091..2195, 2691..2777, 2701..2844, 2764..2820, 2939..3067, 2955..3068, 2976..3068, 3341..3454, 4200..4301, 4201..4266, 4311..4358, 4312..4359		

Seq. No.	14735	Seq. ID	OJ990617_08.9926.C13
Gene No.	31372	Strand	-
Start	2017	End	4414
Name	OJ990617_08.9926.C13.o1.gs	Method	GENSCAN
Start	2017	End	2729
GI	none	Score	.95
Exons	2017..2186, 2656..2729		

Seq. No.	14735	Seq. ID	OJ990617_08.9926.C13
Gene No.	31372	Strand	-
Start	2017	End	4414
Name	OJ990617_08.9926.C13.o1.ts	Method	TBLASTX:Soybean
Start	2738	End	4268
GI	none	Score	51
Exons	2738..2842, 2764..2820, 2939..3067, 2955..3068, 2973..3068, 2974..3069, 3341..3418, 3439..3519, 4200..4268, 4201..4266		

Seq. No.	14735	Seq. ID	OJ990617_08.9926.C13
Gene No.	31372	Strand	-
Start	2017	End	4414
Name	OJ990617_08.9926.C13.o1.tc	Method	TBLASTX:Cress
Start	2773	End	4283
GI	none	Score	134
Exons	2773..2820, 2939..3067, 2964..3068, 2973..3068, 3341..3436, 4200..4283, 4201..4275		

Seq. No.	14736	Seq. ID	OJ990617_08.9926.C14
Gene No.	31373	Strand	-
Start	70	End	1324

Name	OJ990617_08.9926.C14.o1.np	Method	AAT/NAP
Start	70	End	728
GI	2388561	Score	83
Exons	70..341, 704..728		
GI Descrip.	(AC000098) Similar to Arabidopsis hypothetical protein PID:e326839 (gb|Z97337). [Arabidopsis thaliana]		

Seq. No.	14736	Seq. ID	OJ990617_08.9926.C14
Gene No.	31373	Strand	-
Start	70	End	1324
Name	OJ990617_08.9926.C14.o1.gp	Method	AAT/GAP
Start	109	End	1324
GI	42451_1.R1084	Score	491
Exons	109..320, 1249..1324		
GI Descrip.	'5302775/emb|CAB46053.1| 9.0e-40 (Z97337) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	14736	Seq. ID	OJ990617_08.9926.C14
Gene No.	31374	Strand	-
Start	3624	End	5325
Name	OJ990617_08.9926.C14.o3.gs	Method	GENSCAN
Start	3624	End	5325
GI	none	Score	.42
Exons	3624..3763, 4281..4372, 5079..5325		

Seq. No.	14736	Seq. ID	OJ990617_08.9926.C14
Gene No.	31375	Strand	-
Start	5228	End	5480
Name	OJ990617_08.9926.C14.o1.ts	Method	TBLASTX:Soybean
Start	3629	End	5454
GI	none	Score	121
Exons	3629..3763, 3634..3762, 3639..3764, 4282..4356, 5074..5223, 5079..5351, 5090..5314, 5425..5454		

Seq. No.	14736	Seq. ID	OJ990617_08.9926.C14
Gene No.	31375	Strand	-
Start	5228	End	5480
Name	OJ990617_08.9926.C14.o2.gp	Method	AAT/GAP
Start	5228	End	5480
GI	3759732	Score	227
Exons	5228..5325, 5427..5480		

Seq. No.	14737	Seq. ID	OJ990617_08.9926.C15
Gene No.	31376	Strand	+
Start	452	End	745
Name	OJ990617_08.9926.C15.o1.gs	Method	GENSCAN
Start	452	End	745
GI	none	Score	.73
Exons	452..745		

Seq. No.	14738	Seq. ID	OJ990617_08.9926.C16
Gene No.	31377	Strand	+
Start	56	End	218
Name	OJ990617_08.9926.C16.o1.gp	Method	AAT/GAP
Start	56	End	218
GI	8231_1.R1084	Score	261
Exons	56..218		

GI Descrip.	'4587563/gb|AAD25794.1|AC006550_2 1.0e-23 (AC006550) Similar to gb_U51990 pre-mRNA-splicing factor hPrp18 from Homo sapiens. ESTs gb_T46391 and gb_AA721815 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	14738	Seq. ID	OJ990617_08.9926.C16
Gene No.	31378	Strand	-
Start	542	End	1007
Name	OJ990617_08.9926.C16.o1.np	Method	AAT/NAP
Start	542	End	1007
GI	3859568	Score	85
Exons	542..599, 680..755, 935..1007		
GI Descrip.	(AF098752) unknown [Oryza sativa]		

Seq. No.	14739	Seq. ID	OJ990617_08.9926.C18
Gene No.	31379	Strand	-
Start	37	End	557
Name	OJ990617_08.9926.C18.o1.tm	Method	TBLASTX:Maize
Start	1	End	557
GI	none	Score	65
Exons	1..72, 2..49, 61..135, 92..136, 241..327, 246..326, 504..557		

Seq. No.	14739	Seq. ID	OJ990617_08.9926.C18
Gene No.	31379	Strand	-
Start	37	End	557
Name	OJ990617_08.9926.C18.o1.gs	Method	GENSCAN
Start	37	End	554
GI	none	Score	.8
Exons	37..141, 244..330, 503..554		

Seq. No.	14740	Seq. ID	OJ990617_08.9926.C19
Gene No.	31380	Strand	-
Start	782	End	946
Name	OJ990617_08.9926.C19.o1.gs	Method	GENSCAN
Start	782	End	946
GI	none	Score	.4
Exons	782..946		

Seq. No.	14741	Seq. ID	OJ990617_08.9926.C20
Gene No.	31381	Strand	+
Start	217	End	405
Name	OJ990617_08.9926.C20.o1.gs	Method	GENSCAN
Start	217	End	405
GI	none	Score	.46
Exons	217..405		

Seq. No.	14741	Seq. ID	OJ990617_08.9926.C20
Gene No.	31382	Strand	-
Start	1	End	1956
Name	OJ990617_08.9926.C20.o1.np	Method	AAT/NAP
Start	1	End	1933
GI	3901268	Score	305
Exons	1..34, 150..393, 978..1162, 1258..1515, 1719..1933		
GI Descrip.	(AF060173) SV2 related protein [Rattus norvegicus]		

Seq. No.	14741	Seq. ID	OJ990617_08.9926.C20
Gene No.	31382	Strand	-

Start	1	End	1956
Name	OJ990617_08.9926.C20.o1.gp	Method	AAT/GAP
Start	174	End	1034
GI	35119_1.R1084	Score	451
Exons	174..379, 987..1034		
GI Descrip.	'3901268 5.0e-23 (AF060173) SV2 related protein [Rattus norvegicus]'		

Seq. No.	14741	Seq. ID	OJ990617_08.9926.C20
Gene No.	31382	Strand	-
Start	1	End	1956
Name	OJ990617_08.9926.C20.o1.tm	Method	TBLASTX:Maize
Start	1008	End	1956
GI	none	Score	92
Exons	1008..1220, 1009..1221, 1010..1225, 1082..1225, 1258..1539, 1315..1494, 1319..1516, 1702..1956, 1719..1826		

Seq. No.	14741	Seq. ID	OJ990617_08.9926.C20
Gene No.	31382	Strand	-
Start	1	End	1956
Name	OJ990617_08.9926.C20.o2.gp	Method	AAT/GAP
Start	1708	End	1956
GI	64972_1.R1084	Score	366
Exons	1708..1956		
GI Descrip.	'586797/sp|P30638|YOU1_CAEEL 3.0e-11 HYPOTHETICAL 59.1 KD PROTEIN ZK637.1 IN CHROMOSOME III'		

Seq. No.	14742	Seq. ID	OJ990617_08.9926.C21
Gene No.	31383	Strand	-
Start	1	End	3378
Name	OJ990617_08.9926.C21.o1.np	Method	AAT/NAP
Start	1	End	2670
GI	6226936	Score	261
Exons	1..65, 179..416, 1036..1326, 2636..2670		
GI Descrip.	HYPOTHETICAL 58.3 KD PROTEIN ZK637.1 IN CHROMOSOME III gi|3878108|emb|CAA80131.1| (Z22175) predicted using Genefinder; similar to Sugar transporter; cDNA EST yk311g8.3 comes from this gene; cDNA EST yk311g8.5 comes from this gene [Caenorhabditis elegans] gi|3881675|emb|CAA77460.1| (Z11115) predicted using Genefinder; similar to Sugar transporter; cDNA EST yk311g8.3		

Seq. No.	14742	Seq. ID	OJ990617_08.9926.C21
Gene No.	31383	Strand	-
Start	1	End	3378
Name	OJ990617_08.9926.C21.o1.tm	Method	TBLASTX:Maize
Start	163	End	410
GI	none	Score	274
Exons	163..327, 177..410, 179..409, 183..410		

Seq. No.	14742	Seq. ID	OJ990617_08.9926.C21
Gene No.	31383	Strand	-
Start	1	End	3378
Name	OJ990617_08.9926.C21.o1.gp	Method	AAT/GAP
Start	168	End	1412
GI	64972_1.R1084	Score	1106
Exons	168..416, 1035..1412		
GI Descrip.	'586797/sp|P30638|YOU1_CAEEL 3.0e-11 HYPOTHETICAL 59.1 KD		

PROTEIN ZK637.1 IN CHROMOSOME III'

Seq. No.	14742	Seq. ID	OJ990617_08.9926.C21
Gene No.	31383	Strand	-
Start	1	End	3378
Name	OJ990617_08.9926.C21.o1.gs	Method	GENSCAN
Start	247	End	1331
GI	none	Score	.82
Exons	247..416, 958..1005, 1036..1331		

Seq. No.	14742	Seq. ID	OJ990617_08.9926.C21
Gene No.	31383	Strand	-
Start	1	End	3378
Name	OJ990617_08.9926.C21.o2.tm	Method	TBLASTX:Maize
Start	1086	End	1286
GI	none	Score	46
Exons	1086..1169, 1141..1170, 1170..1286, 1171..1254		

Seq. No.	14742	Seq. ID	OJ990617_08.9926.C21
Gene No.	31383	Strand	-
Start	1	End	3378
Name	OJ990617_08.9926.C21.o2.gs	Method	GENSCAN
Start	2196	End	3378
GI	none	Score	.63
Exons	2196..2571, 2811..2928, 2961..3195, 3206..3378		

Seq. No.	14743	Seq. ID	OJ990617_08.9926.C22
Gene No.	31384	Strand	+
Start	3576	End	3657
Name	OJ990617_08.9926.C22.o2.gp	Method	AAT/GAP
Start	3576	End	3657
GI	41565_1.R1084	Score	156
Exons	3576..3657		
GI Descrip.	'5932548/gb|AAD57003.1|AC009465_17 4.0e-30 (AC009465) unknown protein [Arabidopsis thaliana]'		

Seq. No.	14743	Seq. ID	OJ990617_08.9926.C22
Gene No.	31385	Strand	-
Start	1	End	2271
Name	OJ990617_08.9926.C22.o1.gp	Method	AAT/GAP
Start	1	End	115
GI	8231_1.R1084	Score	191
Exons	1..115		
GI Descrip.	'4587563/gb|AAD25794.1|AC006550_2 1.0e-23 (AC006550) Similar to gb_U51990 pre-mRNA-splicing factor hPrp18 from Homo sapiens. ESTs gb_T46391 and gb_AA721815 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	14743	Seq. ID	OJ990617_08.9926.C22
Gene No.	31385	Strand	-
Start	1	End	2271
Name	OJ990617_08.9926.C22.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1581
GI	none	Score	129
Exons	1..78, 2..100, 6..152, 1360..1581, 1360..1560		

Seq. No.	14743	Seq. ID	OJ990617_08.9926.C22

Gene No.	31385	Strand	-
Start	1	End	2271
Name	OJ990617_08.9926.C22.o1.np	Method	AAT/NAP
Start	1	End	2271
GI	4587563	Score	797
Exons	1..118, 1363..1956, 2002..2271		
GI Descrip.	(AC006550) Similar to gb|U51990 pre-mRNA-splicing factor hPrp18 from Homo sapiens. ESTs gb|T46391 and gb|AA721815 come from this gene. [Arabidopsis thaliana]		

Seq. No.	14743	Seq. ID	OJ990617_08.9926.C22
Gene No.	31385	Strand	-
Start	1	End	2271
Name	OJ990617_08.9926.C22.o1.tw	Method	TBLASTX:Wheat
Start	1	End	1470
GI	none	Score	183
Exons	1..120, 2..100, 3..119, 1341..1415, 1355..1444, 1360..1470, 1361..1441		

Seq. No.	14743	Seq. ID	OJ990617_08.9926.C22
Gene No.	31385	Strand	-
Start	1	End	2271
Name	OJ990617_08.9926.C22.o1.tm	Method	TBLASTX:Maize
Start	2	End	1977
GI	none	Score	163
Exons	2..100, 3..152, 3..119, 1360..1560, 1361..1570, 1481..1588, 1513..1578, 1679..1720, 1696..1725, 1705..1932, 1708..1977		

Seq. No.	14743	Seq. ID	OJ990617_08.9926.C22
Gene No.	31385	Strand	-
Start	1	End	2271
Name	OJ990617_08.9926.C22.o1.gs	Method	GENSCAN
Start	1363	End	2271
GI	none	Score	.81
Exons	1363..2271		

Seq. No.	14743	Seq. ID	OJ990617_08.9926.C22
Gene No.	31385	Strand	-
Start	1	End	2271
Name	OJ990617_08.9926.C22.o1.tc	Method	TBLASTX:Cress
Start	1708	End	2214
GI	none	Score	70
Exons	1708..1785, 1709..1768, 1780..1929, 2137..2214		

Seq. No.	14744	Seq. ID	OJ990617_08.9926.C23
Gene No.	31386	Strand	+
Start	83	End	2372
Name	OJ990617_08.9926.C23.o1.gs	Method	GENSCAN
Start	83	End	2324
GI	none	Score	.41
Exons	83..874, 2061..2324		

Seq. No.	14744	Seq. ID	OJ990617_08.9926.C23
Gene No.	31386	Strand	+
Start	83	End	2372
Name	OJ990617_08.9926.C23.o1.np	Method	AAT/NAP
Start	109	End	2348

GI	4263521	Score	1007
Exons	109..442, 509..874, 2061..2348		
GI Descrip.	(AC004044) putative WD-repeat protein [Arabidopsis thaliana]		

Seq. No.	14744	Seq. ID	OJ990617_08.9926.C23
Gene No.	31386	Strand	+
Start	83	End	2372
Name	OJ990617_08.9926.C23.o1.gp	Method	AAT/GAP
Start	126	End	619
GI	41565_1.R1084	Score	877
Exons	126..619		
GI Descrip.	'5932548/gb|AAD57003.1|AC009465_17 4.0e-30 (AC009465) unknown protein [Arabidopsis thaliana]'		

Seq. No.	14744	Seq. ID	OJ990617_08.9926.C23
Gene No.	31386	Strand	+
Start	83	End	2372
Name	OJ990617_08.9926.C23.o1.tm	Method	TBLASTX:Maize
Start	199	End	2312
GI	none	Score	350
Exons	199..432, 212..454, 509..862, 511..864, 590..757, 721..864, 2124..2312, 2136..2294		

Seq. No.	14744	Seq. ID	OJ990617_08.9926.C23
Gene No.	31386	Strand	+
Start	83	End	2372
Name	OJ990617_08.9926.C23.o2.ts	Method	TBLASTX:Soybean
Start	212	End	868
GI	none	Score	220
Exons	212..433, 334..432, 734..868		

Seq. No.	14744	Seq. ID	OJ990617_08.9926.C23
Gene No.	31386	Strand	+
Start	83	End	2372
Name	OJ990617_08.9926.C23.o1.ts	Method	TBLASTX:Soybean
Start	539	End	2372
GI	5057942	Score	82
Exons	539..730, 2051..2341, 2061..2342, 2078..2302, 2085..2372		
GI Descrip.	4263521/gb_AAD15347_ 9.0e-38 (AC004044) putative WD-repeat protein [Arabidopsis thaliana]		

Seq. No.	14745	Seq. ID	OJ990617_08.9926.C24
Gene No.	31387	Strand	+
Start	1788	End	3317
Name	OJ990617_08.9926.C24.o1.np	Method	AAT/NAP
Start	1773	End	3317
GI	3819099	Score	417
Exons	1773..2586, 3183..3317		
GI Descrip.	(AJ009825) copper amine oxidase [Cicer arietinum]		

Seq. No.	14745	Seq. ID	OJ990617_08.9926.C24
Gene No.	31387	Strand	+
Start	1788	End	3317
Name	OJ990617_08.9926.C24.o1.gs	Method	GENSCAN
Start	1788	End	2584
GI	none	Score	.71
Exons	1788..2584		

Seq. No.	14745	Seq. ID	OJ990617_08.9926.C24
Gene No.	31387	Strand	+
Start	1788	End	3317
Name	OJ990617_08.9926.C24.o1.tc	Method	TBLASTX:Cress
Start	1866	End	2483
GI	none	Score	80
Exons	1866..1991, 2040..2171, 2121..2294, 2292..2483		

Seq. No.	14745	Seq. ID	OJ990617_08.9926.C24
Gene No.	31387	Strand	+
Start	1788	End	3317
Name	OJ990617_08.9926.C24.o1.ts	Method	TBLASTX:Soybean
Start	1866	End	2381
GI	none	Score	105
Exons	1866..1991, 1928..1987, 2078..2293, 2109..2294, 2292..2381		

Seq. No.	14746	Seq. ID	OJ990617_08.9926.C25
Gene No.	31388	Strand	+
Start	1121	End	2703
Name	OJ990617_08.9926.C25.o1.gs	Method	GENSCAN
Start	1121	End	2703
GI	none	Score	.78
Exons	1121..1711, 1732..1845, 1918..2703		

Seq. No.	14746	Seq. ID	OJ990617_08.9926.C25
Gene No.	31388	Strand	+
Start	1121	End	2703
Name	OJ990617_08.9926.C25.o1.np	Method	AAT/NAP
Start	1218	End	2631
GI	2244851	Score	1100
Exons	1218..1630, 1732..1845, 1918..2631		
GI Descrip.	(Z97337) amine oxidase like protein [Arabidopsis thaliana]		

Seq. No.	14746	Seq. ID	OJ990617_08.9926.C25
Gene No.	31389	Strand	-
Start	3336	End	4093
Name	OJ990617_08.9926.C25.o1.tc	Method	TBLASTX:Cress
Start	1222	End	2628
GI	none	Score	97
Exons	1222..1284, 1229..1300, 1343..1633, 1346..1459, 1357..1572, 1731..1847, 1732..1848, 1918..2094, 2152..2220, 2211..2621, 2221..2628		

Seq. No.	14746	Seq. ID	OJ990617_08.9926.C25
Gene No.	31389	Strand	-
Start	3336	End	4093
Name	OJ990617_08.9926.C25.o2.ts	Method	TBLASTX:Soybean
Start	1229	End	1597
GI	none	Score	83
Exons	1229..1300, 1346..1597, 1357..1596		

Seq. No.	14746	Seq. ID	OJ990617_08.9926.C25
Gene No.	31389	Strand	-
Start	3336	End	4093
Name	OJ990617_08.9926.C25.o1.ts	Method	TBLASTX:Soybean
Start	1785	End	2646

GI	none	Score	89
Exons	1785..1838, 1786..1839, 1918..2094, 2152..2220, 2220..2300, 2221..2340, 2326..2646, 2334..2633		

Seq. No.	14746	Seq. ID	OJ990617_08.9926.C25
Gene No.	31389	Strand	-
Start	3336	End	4093
Name	OJ990617_08.9926.C25.o1.tw	Method	TBLASTX:Wheat
Start	1981	End	2310
GI	none	Score	144
Exons	1981..2094, 2146..2310, 2148..2309		

Seq. No.	14746	Seq. ID	OJ990617_08.9926.C25
Gene No.	31389	Strand	-
Start	3336	End	4093
Name	OJ990617_08.9926.C25.o2.gs	Method	GENSCAN
Start	3336	End	4093
GI	none	Score	.74
Exons	3336..3511, 3793..3859, 3942..4093		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31390	Strand	+
Start	4	End	5255
Name	OJ990617_08.9926.C26.o1.gs	Method	GENSCAN
Start	4	End	5255
GI	none	Score	.64
Exons	4..129, 1843..1960, 3023..3096, 3950..4025, 4123..4302, 4465..5255		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31390	Strand	+
Start	4	End	5255
Name	OJ990617_08.9926.C26.o2.np	Method	AAT/NAP
Start	4401	End	5252
GI	5932548	Score	715
Exons	4401..5252		
GI Descrip.	(AC009465) unknown protein [Arabidopsis thaliana]		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31390	Strand	+
Start	4	End	5255
Name	OJ990617_08.9926.C26.o1.gp	Method	AAT/GAP
Start	4636	End	5063
GI	5803489	Score	800
Exons	4636..5063		
GI Descrip.	5932548/gb|AAD57003.1|AC009465_17 4.0e-30 (AC009465) unknown protein [Arabidopsis thaliana]		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31391	Strand	-
Start	929	End	3144
Name	OJ990617_08.9926.C26.o1.np	Method	AAT/NAP
Start	929	End	3144
GI	2583130	Score	800
Exons	929..3144		
GI Descrip.	(AC002387) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31392	Strand	-
Start	5121	End	5522
Name	OJ990617_08.9926.C26.o3.ts	Method	TBLASTX:Soybean
Start	2156	End	2542
GI	none	Score	60
Exons	2156..2251, 2279..2542, 2346..2510		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31392	Strand	-
Start	5121	End	5522
Name	OJ990617_08.9926.C26.o2.tm	Method	TBLASTX:Maize
Start	2327	End	2689
GI	none	Score	91
Exons	2327..2659, 2339..2689, 2571..2687		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31392	Strand	-
Start	5121	End	5522
Name	OJ990617_08.9926.C26.o1.tw	Method	TBLASTX:Wheat
Start	2414	End	2818
GI	none	Score	160
Exons	2414..2818, 2439..2765		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31392	Strand	-
Start	5121	End	5522
Name	OJ990617_08.9926.C26.o4.ts	Method	TBLASTX:Soybean
Start	2543	End	2845
GI	none	Score	125
Exons	2543..2662, 2675..2845		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31392	Strand	-
Start	5121	End	5522
Name	OJ990617_08.9926.C26.o1.ts	Method	TBLASTX:Soybean
Start	4395	End	4790
GI	none	Score	66
Exons	4395..4460, 4452..4790, 4472..4738		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31392	Strand	-
Start	5121	End	5522
Name	OJ990617_08.9926.C26.o1.tm	Method	TBLASTX:Maize
Start	4446	End	5084
GI	none	Score	66
Exons	4446..4589, 4601..4945, 4602..4982, 4965..5084		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31392	Strand	-
Start	5121	End	5522
Name	OJ990617_08.9926.C26.o2.ts	Method	TBLASTX:Soybean
Start	4896	End	5258
GI	none	Score	296
Exons	4896..5165, 4896..5108, 4898..5164, 5005..5166, 5150..5251, 5175..5258		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31392	Strand	-
Start	5121	End	5522
Name	OJ990617_08.9926.C26.o1.tc	Method	TBLASTX:Cress
Start	4953	End	5261
GI	none	Score	175
Exons	4953..5108, 4964..5107, 5124..5255, 5202..5261		

Seq. No.	14747	Seq. ID	OJ990617_08.9926.C26
Gene No.	31392	Strand	-
Start	5121	End	5522
Name	OJ990617_08.9926.C26.o2.gp	Method	AAT/GAP
Start	5121	End	5522
GI	5803488	Score	752
Exons	5121..5522		

Seq. No.	14748	Seq. ID	OJ990617_08.9926.C27
Gene No.	31393	Strand	+
Start	1195	End	1762
Name	OJ990617_08.9926.C27.o1.gs	Method	GENSCAN
Start	1195	End	1762
GI	none	Score	.48
Exons	1195..1273, 1582..1762		

Seq. No.	14749	Seq. ID	OJ990617_08.9926.C29
Gene No.	31394	Strand	-
Start	293	End	732
Name	OJ990617_08.9926.C29.o1.ts	Method	TBLASTX:Soybean
Start	290	End	656
GI	none	Score	82
Exons	290..436, 293..436, 294..476, 298..447, 546..656, 553..636		

Seq. No.	14749	Seq. ID	OJ990617_08.9926.C29
Gene No.	31394	Strand	-
Start	293	End	732
Name	OJ990617_08.9926.C29.o1.gs	Method	GENSCAN
Start	293	End	629
GI	none	Score	.76
Exons	293..482, 555..629		

Seq. No.	14749	Seq. ID	OJ990617_08.9926.C29
Gene No.	31394	Strand	-
Start	293	End	732
Name	OJ990617_08.9926.C29.o1.np	Method	AAT/NAP
Start	293	End	732
GI	2335108	Score	269
Exons	293..482, 555..732		
GI Descrip.	(AC002339) putative zinc protease [Arabidopsis thaliana]		

Seq. No.	14749	Seq. ID	OJ990617_08.9926.C29
Gene No.	31394	Strand	-
Start	293	End	732
Name	OJ990617_08.9926.C29.o1.tc	Method	TBLASTX:Cress
Start	294	End	656
GI	none	Score	151
Exons	294..476, 298..480, 312..485, 528..653, 542..619, 546..656		

Seq. No.	14749	Seq. ID	OJ990617_08.9926.C29
Gene No.	31394	Strand	-
Start	293	End	732
Name	OJ990617_08.9926.C29.o1.tm	Method	TBLASTX:Maize
Start	340	End	656
GI	none	Score	154
Exons	340..513, 348..479, 367..483, 371..484, 546..656, 547..654		

Seq. No.	14750	Seq. ID	OJ990617_08.9926.C30
Gene No.	31395	Strand	-
Start	1	End	366
Name	OJ990617_08.9926.C30.o1.np	Method	AAT/NAP
Start	1	End	366
GI	6630696	Score	631
Exons	1..366		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	14750	Seq. ID	OJ990617_08.9926.C30
Gene No.	31395	Strand	-
Start	1	End	366
Name	OJ990617_08.9926.C30.o1.tw	Method	TBLASTX:Wheat
Start	1	End	300
GI	none	Score	222
Exons	1..204, 1..210, 2..211, 2..217, 226..300, 227..295, 240..299		

Seq. No.	14750	Seq. ID	OJ990617_08.9926.C30
Gene No.	31395	Strand	-
Start	1	End	366
Name	OJ990617_08.9926.C30.o1.ts	Method	TBLASTX:Soybean
Start	2	End	294
GI	none	Score	122
Exons	2..157, 7..162, 181..294, 191..259		

Seq. No.	14750	Seq. ID	OJ990617_08.9926.C30
Gene No.	31395	Strand	-
Start	1	End	366
Name	OJ990617_08.9926.C30.o1.gs	Method	GENSCAN
Start	35	End	201
GI	none	Score	.48
Exons	35..201		

Seq. No.	14750	Seq. ID	OJ990617_08.9926.C30
Gene No.	31395	Strand	-
Start	1	End	366
Name	OJ990617_08.9926.C30.o1.tm	Method	TBLASTX:Maize
Start	157	End	366
GI	none	Score	177
Exons	157..366, 158..352, 166..366		

Seq. No.	14751	Seq. ID	OJ990617_08.9926.C31
Gene No.	31396	Strand	-
Start	654	End	1141
Name	OJ990617_08.9926.C31.o2.tw	Method	TBLASTX:Wheat
Start	165	End	516

GI	none	Score	83
Exons	165..191, 195..332, 198..290, 299..364, 307..366, 375..446,	199..348, 221..331, 376..444, 472..516, 484..516	

Seq. No.	14751	Seq. ID	OJ990617_08.9926.C31
Gene No.	31396	Strand	-
Start	654	End	1141
Name	OJ990617_08.9926.C31.o1.tm	Method	TBLASTX:Maize
Start	460	End	783
GI	none	Score	43
Exons	460..504, 462..485, 511..654, 692..781, 693..782, 693..782,	551..643, 552..644, 562..648, 694..783	

Seq. No.	14751	Seq. ID	OJ990617_08.9926.C31
Gene No.	31396	Strand	-
Start	654	End	1141
Name	OJ990617_08.9926.C31.o1.gs	Method	GENSCAN
Start	654	End	995
GI	none	Score	.66
Exons	654..995		

Seq. No.	14751	Seq. ID	OJ990617_08.9926.C31
Gene No.	31396	Strand	-
Start	654	End	1141
Name	OJ990617_08.9926.C31.o1.np	Method	AAT/NAP
Start	657	End	1141
GI	6630696	Score	798
Exons	657..1141		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	14751	Seq. ID	OJ990617_08.9926.C31
Gene No.	31396	Strand	-
Start	654	End	1141
Name	OJ990617_08.9926.C31.o1.tw	Method	TBLASTX:Wheat
Start	793	End	1140
GI	none	Score	363
Exons	793..1140, 793..1131, 795..1139		

Seq. No.	14751	Seq. ID	OJ990617_08.9926.C31
Gene No.	31396	Strand	-
Start	654	End	1141
Name	OJ990617_08.9926.C31.o1.ts	Method	TBLASTX:Soybean
Start	921	End	1130
GI	none	Score	96
Exons	921..1130, 1000..1125		

Seq. No.	14752	Seq. ID	OJ990617_08.9926.C33
Gene No.	31397	Strand	-
Start	244	End	394
Name	OJ990617_08.9926.C33.o1.gs	Method	GENSCAN
Start	244	End	394
GI	none	Score	.42
Exons	244..394		

Seq. No.	14753	Seq. ID	OJ990617_08.9926.C35

Gene No.	31398	Strand	-
Start	1	End	509
Name	OJ990617_08.9926.C35.o1.gp	Method	AAT/GAP
Start	1	End	509
GI	3450841	Score	532
Exons	1..56, 166..323, 436..509		
GI Descrip.	3450842 0.0e+00 (AF080436) mitogen activated protein kinase kinase [Oryza sativa]		

Seq. No.	14753	Seq. ID	OJ990617_08.9926.C35
Gene No.	31398	Strand	-
Start	1	End	509
Name	OJ990617_08.9926.C35.o1.ts	Method	TBLASTX:Soybean
Start	1	End	509
GI	none	Score	67
Exons	1..57, 3..56, 166..327, 167..331, 342..509, 434..508		

Seq. No.	14753	Seq. ID	OJ990617_08.9926.C35
Gene No.	31398	Strand	-
Start	1	End	509
Name	OJ990617_08.9926.C35.o1.np	Method	AAT/NAP
Start	1	End	509
GI	3450842	Score	427
Exons	1..56, 166..323, 436..509		
GI Descrip.	(AF080436) mitogen activated protein kinase kinase [Oryza sativa]		

Seq. No.	14753	Seq. ID	OJ990617_08.9926.C35
Gene No.	31398	Strand	-
Start	1	End	509
Name	OJ990617_08.9926.C35.o1.gs	Method	GENSCAN
Start	15	End	309
GI	none	Score	.69
Exons	15..56, 166..309		

Seq. No.	14753	Seq. ID	OJ990617_08.9926.C35
Gene No.	31398	Strand	-
Start	1	End	509
Name	OJ990617_08.9926.C35.o1.tc	Method	TBLASTX:Cress
Start	157	End	509
GI	none	Score	144
Exons	157..327, 158..331, 420..509, 434..508		

Seq. No.	14753	Seq. ID	OJ990617_08.9926.C35
Gene No.	31398	Strand	-
Start	1	End	509
Name	OJ990617_08.9926.C35.o1.tm	Method	TBLASTX:Maize
Start	166	End	506
GI	none	Score	126
Exons	166..342, 167..325, 437..505, 453..506		

Seq. No.	14754	Seq. ID	OJ990617_08.9926.C36
Gene No.	31399	Strand	-
Start	98	End	1351
Name	OJ990617_08.9926.C36.o1.gs	Method	GENSCAN
Start	98	End	1348
GI	none	Score	.8

Exons	98..178, 485..556, 1177..1348		
Seq. No.	14754	Seq. ID	OJ990617_08.9926.C36
Gene No.	31399	Strand	-
Start	98	End	1351
Name	OJ990617_08.9926.C36.o1.np	Method	AAT/NAP
Start	1177	End	1351
GI	3319353	Score	97
Exons	1177..1351		
GI Descrip.	(AF077407) contains similarity to copper-binding proteins [Arabidopsis thaliana]		
Seq. No.	14755	Seq. ID	OJ990617_08.9926.C38
Gene No.	31400	Strand	+
Start	1	End	1321
Name	OJ990617_08.9926.C38.o2.np	Method	AAT/NAP
Start	1	End	719
GI	4680186	Score	299
Exons	1..36, 519..719		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	14755	Seq. ID	OJ990617_08.9926.C38
Gene No.	31400	Strand	+
Start	1	End	1321
Name	OJ990617_08.9926.C38.o1.np	Method	AAT/NAP
Start	367	End	1321
GI	5852180	Score	38
Exons	367..435, 1227..1321		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	14755	Seq. ID	OJ990617_08.9926.C38
Gene No.	31401	Strand	-
Start	269	End	652
Name	OJ990617_08.9926.C38.o1.gp	Method	AAT/GAP
Start	269	End	652
GI	uC-osf1cyp033a04b1	Score	673
Exons	269..652		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	14756	Seq. ID	OJ990617_08.9926.C39
Gene No.	31402	Strand	-
Start	302	End	1427
Name	OJ990617_08.9926.C39.o1.np	Method	AAT/NAP
Start	302	End	1427
GI	4680179	Score	1631
Exons	302..1427		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	14756	Seq. ID	OJ990617_08.9926.C39
Gene No.	31402	Strand	-
Start	302	End	1427
Name	OJ990617_08.9926.C39.o2.tw	Method	TBLASTX:Wheat
Start	347	End	691
GI	none	Score	115
Exons	347..691, 368..676, 411..689		

Seq. No.	14756	Seq. ID	OJ990617_08.9926.C39
Gene No.	31402	Strand	-
Start	302	End	1427
Name	OJ990617_08.9926.C39.o1.tm	Method	TBLASTX:Maize
Start	578	End	1140
GI	none	Score	101
Exons	578..682, 694..738, 757..903,	903..977, 972..1139, 973..1140	

Seq. No.	14756	Seq. ID	OJ990617_08.9926.C39
Gene No.	31402	Strand	-
Start	302	End	1427
Name	OJ990617_08.9926.C39.o1.tw	Method	TBLASTX:Wheat
Start	694	End	1304
GI	none	Score	43
Exons	694..804, 697..894, 800..889,	867..1211, 867..1304, 907..1248	

Seq. No.	14756	Seq. ID	OJ990617_08.9926.C39
Gene No.	31402	Strand	-
Start	302	End	1427
Name	OJ990617_08.9926.C39.o2.tm	Method	TBLASTX:Maize
Start	1173	End	1425
GI	none	Score	184
Exons	1173..1424, 1177..1425		

Seq. No.	14756	Seq. ID	OJ990617_08.9926.C39
Gene No.	31402	Strand	-
Start	302	End	1427
Name	OJ990617_08.9926.C39.o1.ts	Method	TBLASTX:Soybean
Start	1263	End	1427
GI	none	Score	111
Exons	1263..1427, 1264..1398		

Seq. No.	14756	Seq. ID	OJ990617_08.9926.C39
Gene No.	31402	Strand	-
Start	302	End	1427
Name	OJ990617_08.9926.C39.o3.tw	Method	TBLASTX:Wheat
Start	1311	End	1427
GI	none	Score	109
Exons	1311..1427, 1312..1422		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o1.np	Method	AAT/NAP
Start	1	End	3234
GI	4680179	Score	3498
Exons	1..2133, 2167..3234		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o6.tw	Method	TBLASTX:Wheat
Start	1	End	232
GI	none	Score	89
Exons	1..231, 13..207, 50..232		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o1.gs	Method	GENSCAN
Start	61	End	3084
GI	none	Score	.81
Exons	61..1868, 2055..3084		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o1.tw	Method	TBLASTX:Wheat
Start	232	End	735
GI	none	Score	354
Exons	232..735, 314..703		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o1.tm	Method	TBLASTX:Maize
Start	301	End	664
GI	none	Score	169
Exons	301..663, 310..663, 314..664		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o2.ts	Method	TBLASTX:Soybean
Start	484	End	729
GI	none	Score	64
Exons	484..729, 584..712		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o2.tm	Method	TBLASTX:Maize
Start	700	End	1200
GI	none	Score	52
Exons	700..1014, 743..793, 821..874, 1021..1200, 1046..1192		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o3.tw	Method	TBLASTX:Wheat
Start	736	End	1038
GI	none	Score	271
Exons	736..1038, 752..1036, 957..1037		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o1.ts	Method	TBLASTX:Soybean
Start	751	End	1146
GI	none	Score	203
Exons	751..1110, 752..1042, 1070..1108, 1114..1146, 1115..1144		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40

Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o2.tw	Method	TBLASTX:Wheat
Start	1087	End	1569
GI	none	Score	222
Exons	1087..1464, 1130..1465, 1519..1569		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o3.tm	Method	TBLASTX:Maize
Start	1268	End	1557
GI	none	Score	133
Exons	1268..1459, 1270..1461, 1270..1557		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o5.tw	Method	TBLASTX:Wheat
Start	1684	End	2106
GI	none	Score	73
Exons	1684..1851, 1739..1852, 1897..2106, 1898..2050		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o5.tm	Method	TBLASTX:Maize
Start	1789	End	2142
GI	none	Score	192
Exons	1789..2142		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o7.tw	Method	TBLASTX:Wheat
Start	2422	End	2652
GI	none	Score	171
Exons	2422..2652		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o4.tm	Method	TBLASTX:Maize
Start	2467	End	2772
GI	none	Score	90
Exons	2467..2772, 2642..2758		

Seq. No.	14757	Seq. ID	OJ990617_08.9926.C40
Gene No.	31403	Strand	-
Start	1	End	3234
Name	OJ990617_08.9926.C40.o4.tw	Method	TBLASTX:Wheat
Start	2653	End	3015
GI	none	Score	149
Exons	2653..3015, 2654..3013		

Seq. No.	14758	Seq. ID	OJ990617_08.9926.C41
Gene No.	31404	Strand	-

Start	100	End	260
Name	OJ990617_08.9926.C41.o1.gs	Method	GENSCAN
Start	100	End	260
GI	none	Score	.41
Exons	100..260		

Seq. No.	14759	Seq. ID	OJ990617_08.9926.C42
Gene No.	31405	Strand	+
Start	495	End	548
Name	OJ990617_08.9926.C42.o1.gs	Method	GENSCAN
Start	495	End	548
GI	none	Score	.77
Exons	495..548		

Seq. No.	14760	Seq. ID	OJ990617_08.9926.C44
Gene No.	31406	Strand	-
Start	1	End	475
Name	OJ990617_08.9926.C44.o1.gp	Method	AAT/GAP
Start	1	End	475
GI	14616_1.R1084	Score	922
Exons	1..475		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	14760	Seq. ID	OJ990617_08.9926.C44
Gene No.	31406	Strand	-
Start	1	End	475
Name	OJ990617_08.9926.C44.o2.tm	Method	TBLASTX:Maize
Start	9	End	298
GI	none	Score	166
Exons	9..125, 10..126, 12..137, 59..139, 150..236, 155..244, 156..242, 219..269, 224..298		

Seq. No.	14760	Seq. ID	OJ990617_08.9926.C44
Gene No.	31407	Strand	
Start	821	End	1090
Name	OJ990617_08.9926.C44.o1.tm	Method	TBLASTX:Maize
Start	821	End	1090
GI	none	Score	248
Exons	821..1090, 825..1088		

Seq. No.	14761	Seq. ID	OJ990617_08.9926.C45
Gene No.	31408	Strand	-
Start	143	End	325
Name	OJ990617_08.9926.C45.o1.np	Method	AAT/NAP
Start	136	End	303
GI	2388561	Score	120
Exons	136..303		
GI Descrip.	(AC000098) Similar to Arabidopsis hypothetical protein PID:e326839 (gb|Z97337). [Arabidopsis thaliana]		

Seq. No.	14761	Seq. ID	OJ990617_08.9926.C45
Gene No.	31408	Strand	-
Start	143	End	325
Name	OJ990617_08.9926.C45.o1.gs	Method	GENSCAN
Start	143	End	312
GI	none	Score	1

Exons	143..312		
Seq. No.	14761	Seq. ID	OJ990617_08.9926.C45
Gene No.	31408	Strand	-
Start	143	End	325
Name	OJ990617_08.9926.C45.o1.tm	Method	TBLASTX:Maize
Start	169	End	325
GI	none	Score	94
Exons	169..306, 182..325, 207..314, 217..318, 218..325		
Seq. No.	14762	Seq. ID	OJ990617_08.9926.C46
Gene No.	31409	Strand	+
Start	146	End	539
Name	OJ990617_08.9926.C46.o1.gp	Method	AAT/GAP
Start	146	End	539
GI	4715075	Score	748
Exons	146..539		
Seq. No.	14762	Seq. ID	OJ990617_08.9926.C46
Gene No.	31410	Strand	-
Start	454	End	663
Name	OJ990617_08.9926.C46.o1.gs	Method	GENSCAN
Start	454	End	663
GI	none	Score	.82
Exons	454..663		
Seq. No.	14762	Seq. ID	OJ990617_08.9926.C46
Gene No.	31410	Strand	-
Start	454	End	663
Name	OJ990617_08.9926.C46.o1.np	Method	AAT/NAP
Start	457	End	660
GI	2415746	Score	69
Exons	457..660		
GI Descrip.	(AB000617) YceI [Bacillus subtilis] gi|2632581|emb|CAB12089| (Z99105) similar to transporter [Bacillus subtilis]		
Seq. No.	14763	Seq. ID	OJ990617_08.9926.C48
Gene No.	31411	Strand	+
Start	204	End	265
Name	OJ990617_08.9926.C48.o1.gs	Method	GENSCAN
Start	204	End	265
GI	none	Score	.83
Exons	204..265		
Seq. No.	14764	Seq. ID	OJ990617_08.9926.C52
Gene No.	31412	Strand	+
Start	1091	End	3721
Name	OJ990617_08.9926.C52.o1.np	Method	AAT/NAP
Start	1091	End	3721
GI	2244806	Score	69
Exons	1091..1174, 1546..1713, 2146..2184, 3683..3721		
GI Descrip.	(Z97336) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	14764	Seq. ID	OJ990617_08.9926.C52
Gene No.	31413	Strand	+
Start	3766	End	3988
Name	OJ990617_08.9926.C52.o2.gs	Method	GENSCAN

Start	3766	End	3988
GI	none	Score	.63
Exons	3766..3797, 3868..3988		

Seq. No.	14764	Seq. ID	OJ990617_08.9926.C52
Gene No.	31414	Strand	-
Start	5301	End	5797
Name	OJ990617_08.9926.C52.o3.gs	Method	GENSCAN
Start	5301	End	5797
GI	none	Score	.71
Exons	5301..5402, 5714..5797		

Seq. No.	14765	Seq. ID	OJ990617_08.9926.C53
Gene No.	31415	Strand	-
Start	217	End	3880
Name	OJ990617_08.9926.C53.o1.tc	Method	TBLASTX:Cress
Start	205	End	723
GI	none	Score	63
Exons	205..393, 226..393, 227..415, 467..661, 478..660, 655..723		

Seq. No.	14765	Seq. ID	OJ990617_08.9926.C53
Gene No.	31415	Strand	-
Start	217	End	3880
Name	OJ990617_08.9926.C53.o1.ts	Method	TBLASTX:Soybean
Start	208	End	2908
GI	none	Score	69
Exons	208..393, 226..393, 227..415, 467..730, 478..732, 478..729, 480..734, 2625..2876, 2630..2878, 2634..2729, 2635..2871, 2636..2908		

Seq. No.	14765	Seq. ID	OJ990617_08.9926.C53
Gene No.	31415	Strand	-
Start	217	End	3880
Name	OJ990617_08.9926.C53.o1.np	Method	AAT/NAP
Start	217	End	3874
GI	5734743	Score	1375
Exons	217..390, 481..731, 2552..3874		
GI Descrip.	(AC007651) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	14765	Seq. ID	OJ990617_08.9926.C53
Gene No.	31415	Strand	-
Start	217	End	3880
Name	OJ990617_08.9926.C53.o1.gs	Method	GENSCAN
Start	249	End	3880
GI	none	Score	.95
Exons	249..390, 481..730, 2634..3880		

Seq. No.	14765	Seq. ID	OJ990617_08.9926.C53
Gene No.	31415	Strand	-
Start	217	End	3880
Name	OJ990617_08.9926.C53.o1.gp	Method	AAT/GAP
Start	827	End	1412
GI	uC-osf1cyp075e11b1	Score	1152
Exons	827..1412		
GI Descrip.	'5441876/dbj|AP000367.1|AP000367 3.0e-98 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	14765	Seq. ID	OJ990617_08.9926.C53
Gene No.	31415	Strand	-
Start	217	End	3880
Name	OJ990617_08.9926.C53.o2.ts	Method	TBLASTX:Soybean
Start	2993	End	3223
GI	none	Score	142
Exons	2993..3043, 3035..3223, 3065..3223		

Seq. No.	14766	Seq. ID	OJ990617_08.9926.C54
Gene No.	31416	Strand	+
Start	476	End	669
Name	OJ990617_08.9926.C54.o1.gp	Method	AAT/GAP
Start	476	End	669
GI	3769201	Score	348
Exons	476..669		

Seq. No.	14767	Seq. ID	OJ990617_08.9926.C55
Gene No.	31417	Strand	+
Start	526	End	657
Name	OJ990617_08.9926.C55.o1.gs	Method	GENSCAN
Start	526	End	629
GI	none	Score	.91
Exons	526..629		

Seq. No.	14767	Seq. ID	OJ990617_08.9926.C55
Gene No.	31417	Strand	+
Start	526	End	657
Name	OJ990617_08.9926.C55.o1.np	Method	AAT/NAP
Start	526	End	657
GI	6706418	Score	61
Exons	526..657		
GI Descrip.	(AL133248) protease-like protein [Arabidopsis thaliana]		

Seq. No.	14768	Seq. ID	OJ990617_08.9926.C56
Gene No.	31418	Strand	-
Start	1	End	375
Name	OJ990617_08.9926.C56.o1.np	Method	AAT/NAP
Start	1	End	369
GI	4689034	Score	228
Exons	1..187, 272..369		
GI Descrip.	(AJ133751) chloroplast ribosome recycling factor protein [Spinacia oleracea]		

Seq. No.	14768	Seq. ID	OJ990617_08.9926.C56
Gene No.	31418	Strand	-
Start	1	End	375
Name	OJ990617_08.9926.C56.o1.ts	Method	TBLASTX:Soybean
Start	64	End	375
GI	none	Score	90
Exons	64..189, 76..195, 271..375, 275..370, 276..371, 277..372		

Seq. No.	14768	Seq. ID	OJ990617_08.9926.C56
Gene No.	31418	Strand	-
Start	1	End	375
Name	OJ990617_08.9926.C56.o1.tm	Method	TBLASTX:Maize
Start	73	End	375
GI	none	Score	159

Exons	73..189, 74..190, 74..193, 76..195, 271..375, 275..370, 280..372		
Seq. No.	14768	Seq. ID	OJ990617_08.9926.C56
Gene No.	31418	Strand	-
Start	1	End	375
Name	OJ990617_08.9926.C56.o1.gs	Method	GENSCAN
Start	76	End	369
GI	none	Score	.94
Exons	76..244, 272..369		
Seq. No.	14769	Seq. ID	OJ990617_08.9926.C57
Gene No.	31419	Strand	+
Start	264	End	402
Name	OJ990617_08.9926.C57.o1.gs	Method	GENSCAN
Start	264	End	402
GI	none	Score	.85
Exons	264..402		
Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31420	Strand	-
Start	1	End	3187
Name	OJ990617_08.9926.C58.o1.np	Method	AAT/NAP
Start	1	End	3187
GI	6721517	Score	4465
Exons	1..2035, 2084..2836, 2916..3070, 3124..3187		
GI Descrip.	(AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]		
Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o2.tw	Method	TBLASTX:Wheat
Start	108	End	8671
GI	none	Score	40
Exons	108..227, 199..228, 222..500, 233..616, 273..584, 8465..8671, 8555..8671		
Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o2.tm	Method	TBLASTX:Maize
Start	305	End	745
GI	none	Score	156
Exons	305..745, 317..712, 366..731		
Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o3.ts	Method	TBLASTX:Soybean
Start	365	End	607
GI	none	Score	197
Exons	365..607		
Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o5.tw	Method	TBLASTX:Wheat
Start	617	End	919

GI	none	Score	182
Exons	617..919, 617..919		
Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o1.ts	Method	TBLASTX:Soybean
Start	631	End	1027
GI	none	Score	125
Exons	631..984, 632..991, 633..875, 995..1027	850..984, 914..988,	
Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o7.tm	Method	TBLASTX:Maize
Start	750	End	913
GI	none	Score	127
Exons	750..908, 751..909, 752..913		
Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o3.tm	Method	TBLASTX:Maize
Start	914	End	1385
GI	none	Score	98
Exons	914..1381, 947..1294, 1140..1385		
Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o4.tw	Method	TBLASTX:Wheat
Start	968	End	1454
GI	none	Score	301
Exons	968..1450, 1011..1454		
Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o4.ts	Method	TBLASTX:Soybean
Start	1100	End	1381
GI	none	Score	66
Exons	1100..1381, 1101..1298		
Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o8.tw	Method	TBLASTX:Wheat
Start	1625	End	1979
GI	none	Score	74
Exons	1625..1978, 1661..1795, 1839..1979		
Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o5.tm	Method	TBLASTX:Maize
Start	1712	End	2032

GI	none	Score	209
Exons	1712..2032		

Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o6.tm	Method	TBLASTX:Maize
Start	2378	End	2674
GI	none	Score	67
Exons	2378..2674, 2468..2584, 2487..2657		

Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o7.tw	Method	TBLASTX:Wheat
Start	2555	End	2918
GI	none	Score	84
Exons	2555..2914, 2556..2789, 2814..2918		

Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o2.np	Method	AAT/NAP
Start	6970	End	8736
GI	4680179	Score	2721
Exons	6970..8736		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o8.tm	Method	TBLASTX:Maize
Start	6994	End	7191
GI	none	Score	191
Exons	6994..7191		

Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o6.tw	Method	TBLASTX:Wheat
Start	7015	End	7349
GI	none	Score	79
Exons	7015..7185, 7211..7348, 7212..7349		

Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o1.tm	Method	TBLASTX:Maize
Start	7208	End	7795
GI	none	Score	131
Exons	7208..7477, 7209..7469, 7538..7636, 7539..7634, 7568..7636, 7634..7795, 7641..7787, 7643..7789		

Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o1.tw	Method	TBLASTX:Wheat

Start	7349	End	7975
GI	none	Score	355
Exons	7349..7975, 7350..7919		

Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o4.tm	Method	TBLASTX:Maize
Start	7916	End	8332
GI	none	Score	48
Exons	7916..8332, 7929..8036, 8106..8297		

Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o2.ts	Method	TBLASTX:Soybean
Start	7934	End	8194
GI	none	Score	54
Exons	7934..8002, 7934..8194, 8088..8189		

Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o1.tc	Method	TBLASTX:Cress
Start	7958	End	8284
GI	none	Score	85
Exons	7958..8101, 8102..8284		

Seq. No.	14770	Seq. ID	OJ990617_08.9926.C58
Gene No.	31421	Strand	-
Start	6970	End	8736
Name	OJ990617_08.9926.C58.o3.tw	Method	TBLASTX:Wheat
Start	7982	End	8461
GI	none	Score	213
Exons	7982..8461, 7983..8366, 7988..8443		

Seq. No.	14771	Seq. ID	OJ990617_08.9926.C59
Gene No.	31422	Strand	+
Start	186	End	950
Name	OJ990617_08.9926.C59.o1.gs	Method	GENSCAN
Start	186	End	950
GI	none	Score	.46
Exons	186..950		

Seq. No.	14771	Seq. ID	OJ990617_08.9926.C59
Gene No.	31423	Strand	+
Start	1897	End	2630
Name	OJ990617_08.9926.C59.o2.gs	Method	GENSCAN
Start	1897	End	2630
GI	none	Score	.63
Exons	1897..2028, 2109..2128, 2269..2450, 2551..2630		

Seq. No.	14772	Seq. ID	OJ990617_08.9926.C60
Gene No.	31424	Strand	-
Start	176	End	861
Name	OJ990617_08.9926.C60.o1.gs	Method	GENSCAN
Start	176	End	861

GI	none	Score	.87
Exons	176..345, 564..861		

Seq. No.	14773	Seq. ID	OJ990617_08.9926.C61
Gene No.	31425	Strand	-
Start	86	End	891
Name	OJ990617_08.9926.C61.o1.gs	Method	GENSCAN
Start	86	End	891
GI	none	Score	.65
Exons	86..220, 699..891		

Seq. No.	14774	Seq. ID	OJ990617_08.9926.C62
Gene No.	31426	Strand	+
Start	4003	End	5325
Name	OJ990617_08.9926.C62.o2.gs	Method	GENSCAN
Start	4003	End	5325
GI	none	Score	.97
Exons	4003..4073, 4320..4449, 4771..5325		

Seq. No.	14774	Seq. ID	OJ990617_08.9926.C62
Gene No.	31427	Strand	-
Start	46	End	4162
Name	OJ990617_08.9926.C62.o1.gs	Method	GENSCAN
Start	46	End	3706
GI	none	Score	.81
Exons	46..144, 714..770, 889..939, 1032..1088, 2115..2156, 2966..3134, 3162..3259, 3644..3706		

Seq. No.	14774	Seq. ID	OJ990617_08.9926.C62
Gene No.	31427	Strand	-
Start	46	End	4162
Name	OJ990617_08.9926.C62.o1.gp	Method	AAT/GAP
Start	191	End	2151
GI	28408_1.R1084	Score	957
Exons	191..532, 714..770, 889..939, 1032..1088, 2115..2151		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	14774	Seq. ID	OJ990617_08.9926.C62
Gene No.	31427	Strand	-
Start	46	End	4162
Name	OJ990617_08.9926.C62.o1.np	Method	AAT/NAP
Start	699	End	4162
GI	4689034	Score	536
Exons	699..770, 889..939, 1032..1088, 2115..2156, 2966..3077, 3162..3259, 3599..3694, 3785..3841, 3924..4162		
GI Descrip.	(AJ133751) chloroplast ribosome recycling factor protein [Spinacia oleracea]		

Seq. No.	14774	Seq. ID	OJ990617_08.9926.C62
Gene No.	31428	Strand	-
Start	4232	End	4549
Name	OJ990617_08.9926.C62.o1.tm	Method	TBLASTX:Maize
Start	712	End	4037
GI	none	Score	109
Exons	712..774, 712..777, 889..966, 890..952, 1017..1091, 1031..1090, 2104..2157, 2106..2159, 2963..3079, 2964..3080, 2964..3083,		

2966..3085, 3161..3265, 3165..3260, 3170..3262, 3596..3691, 3596..3694, 3597..3695, 3752..3853, 3753..3860, 3786..3854, 3885..4037, 3939..4016

Seq. No.	14774	Seq. ID	OJ990617_08.9926.C62
Gene No.	31428	Strand	-
Start	4232	End	4549
Name	OJ990617_08.9926.C62.o1.ts	Method	TBLASTX:Soybean
Start	718	End	3857
GI	none	Score	68
Exons	718..774, 889..966, 890..952, 1017..1091, 1032..1088, 2954..3079, 2966..3085, 3161..3265, 3165..3260, 3167..3262, 3596..3688, 3596..3694, 3753..3857, 3773..3847		

Seq. No.	14774	Seq. ID	OJ990617_08.9926.C62
Gene No.	31428	Strand	-
Start	4232	End	4549
Name	OJ990617_08.9926.C62.o2.np	Method	AAT/NAP
Start	4232	End	4549
GI	6069646	Score	112
Exons	4232..4549		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	14775	Seq. ID	OJ990617_08.9926.C63
Gene No.	31429	Strand	+
Start	1655	End	3098
Name	OJ990617_08.9926.C63.o3.np	Method	AAT/NAP
Start	1655	End	3098
GI	3319353	Score	204
Exons	1655..1679, 2824..3098		
GI Descrip.	(AF077407) contains similarity to copper-binding proteins [Arabidopsis thaliana]		

Seq. No.	14775	Seq. ID	OJ990617_08.9926.C63
Gene No.	31429	Strand	+
Start	1655	End	3098
Name	OJ990617_08.9926.C63.o1.tm	Method	TBLASTX:Maize
Start	2180	End	2671
GI	none	Score	117
Exons	2180..2284, 2193..2348, 2193..2285, 2377..2424, 2381..2425, 2472..2549, 2473..2529, 2534..2671, 2536..2670		

Seq. No.	14775	Seq. ID	OJ990617_08.9926.C63
Gene No.	31429	Strand	+
Start	1655	End	3098
Name	OJ990617_08.9926.C63.o1.np	Method	AAT/NAP
Start	2186	End	2282
GI	133435	Score	98
Exons	2186..2282		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE BETA' CHAIN gi|66983|pir||RNRZC1 DNA-directed RNA polymerase (EC 2.7.7.6) beta'-1 chain - rice chloroplast gi|11972|emb|CAA33987| (X15901) RNA polymerase beta' subunit-1 [Oryza sativa] gi|226690|prf||1603356Q RNA polymerase		

beta'-1 [Oryza sativa]

Seq. No.	14775	Seq. ID	OJ990617_08.9926.C63
Gene No.	31429	Strand	+
Start	1655	End	3098
Name	OJ990617_08.9926.C63.o1.ts	Method	TBLASTX:Soybean
Start	2193	End	2716
GI	none	Score	72
Exons	2193..2258, 2377..2424, 2381..2425, 2472..2549, 2473..2529, 2532..2714, 2533..2715, 2534..2716, 2536..2715		

Seq. No.	14775	Seq. ID	OJ990617_08.9926.C63
Gene No.	31429	Strand	+
Start	1655	End	3098
Name	OJ990617_08.9926.C63.o2.np	Method	AAT/NAP
Start	2300	End	2711
GI	225279	Score	294
Exons	2300..2711		
GI Descrip.	rpoC-like ORF 236 [Nicotiana tabacum]		

Seq. No.	14775	Seq. ID	OJ990617_08.9926.C63
Gene No.	31429	Strand	+
Start	1655	End	3098
Name	OJ990617_08.9926.C63.o1.tc	Method	TBLASTX:Cress
Start	2566	End	2721
GI	none	Score	217
Exons	2566..2715, 2567..2716, 2569..2721		

Seq. No.	14775	Seq. ID	OJ990617_08.9926.C63
Gene No.	31429	Strand	+
Start	1655	End	3098
Name	OJ990617_08.9926.C63.o2.tm	Method	TBLASTX:Maize
Start	2804	End	3020
GI	none	Score	123
Exons	2804..2917, 2822..3019, 2823..3020		

Seq. No.	14775	Seq. ID	OJ990617_08.9926.C63
Gene No.	31429	Strand	+
Start	1655	End	3098
Name	OJ990617_08.9926.C63.o1.tw	Method	TBLASTX:Wheat
Start	2822	End	3020
GI	none	Score	210
Exons	2822..3019, 2823..3020		

Seq. No.	14775	Seq. ID	OJ990617_08.9926.C63
Gene No.	31429	Strand	+
Start	1655	End	3098
Name	OJ990617_08.9926.C63.o2.ts	Method	TBLASTX:Soybean
Start	2823	End	3020
GI	none	Score	229
Exons	2823..3020, 2825..2866, 2900..3019		

Seq. No.	14775	Seq. ID	OJ990617_08.9926.C63
Gene No.	31429	Strand	+
Start	1655	End	3098
Name	OJ990617_08.9926.C63.o2.gp	Method	AAT/GAP
Start	2824	End	3098

GI	31278_1.R1084	Score	471
Exons	2824..3098		
GI Descrip.	'3319353 2.0e-23 (AF077407) contains similarity to copper-binding proteins [Arabidopsis thaliana]'		

Seq. No.	14776	Seq. ID	OJ990617_08.9926.C64
Gene No.	31430	Strand	+
Start	3683	End	3742
Name	OJ990617_08.9926.C64.o1.gp	Method	AAT/GAP
Start	3683	End	3742
GI	4715947	Score	71
Exons	3683..3742		
GI Descrip.	2252840 3.0e-09 (AF013293) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana] >gi_6049882_gb_AAF02797.1_AF195115_17 (AF195115) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana]		

Seq. No.	14776	Seq. ID	OJ990617_08.9926.C64
Gene No.	31431	Strand	+
Start	4598	End	4930
Name	OJ990617_08.9926.C64.o2.np	Method	AAT/NAP
Start	4598	End	4930
GI	6706418	Score	191
Exons	4598..4738, 4840..4930		
GI Descrip.	(AL133248) protease-like protein [Arabidopsis thaliana]		

Seq. No.	14776	Seq. ID	OJ990617_08.9926.C64
Gene No.	31432	Strand	-
Start	3156	End	4930
Name	OJ990617_08.9926.C64.o1.np	Method	AAT/NAP
Start	3156	End	4930
GI	4680492	Score	287
Exons	3156..3728, 4909..4930		
GI Descrip.	(AF119222) putative reverse transcriptase [Oryza sativa]		

Seq. No.	14776	Seq. ID	OJ990617_08.9926.C64
Gene No.	31432	Strand	-
Start	3156	End	4930
Name	OJ990617_08.9926.C64.o1.tm	Method	TBLASTX:Maize
Start	4528	End	4914
GI	none	Score	43
Exons	4528..4572, 4636..4737, 4637..4738, 4837..4914, 4837..4914		

Seq. No.	14776	Seq. ID	OJ990617_08.9926.C64
Gene No.	31432	Strand	-
Start	3156	End	4930
Name	OJ990617_08.9926.C64.o1.ts	Method	TBLASTX:Soybean
Start	4634	End	4914
GI	none	Score	123
Exons	4634..4738, 4634..4738, 4837..4914		

Seq. No.	14777	Seq. ID	OJ990617_08.9926.C65
Gene No.	31433	Strand	+
Start	1	End	8951
Name	OJ990617_08.9926.C65.o1.np	Method	AAT/NAP
Start	1	End	8951

GI	2335108	Score	917
Exons	1..57, 1541..1608, 2456..2547, 2631..2704, 2794..2837, 2998..3049, 4459..4581, 4688..4800, 4918..5080, 7819..7911, 7996..8081, 8859..8951		
GI Descrip.	(AC002339) putative zinc protease [Arabidopsis thaliana]		

Seq. No.	14777	Seq. ID	OJ990617_08.9926.C65
Gene No.	31433	Strand	+
Start	1	End	8951
Name	OJ990617_08.9926.C65.o1.gs	Method	GENSCAN
Start	1541	End	4483
GI	none	Score	.71
Exons	1541..1608, 2456..2547, 2631..2704, 2794..2837, 2998..3049, 4217..4409, 4459..4483		

Seq. No.	14777	Seq. ID	OJ990617_08.9926.C65
Gene No.	31434	Strand	-
Start	6953	End	8084
Name	OJ990617_08.9926.C65.o1.tm	Method	TBLASTX:Maize
Start	4539	End	8084
GI	none	Score	56
Exons	4539..4580, 4687..4803, 4905..5081, 4906..5082, 7784..7909, 7806..7910, 7995..8084, 7995..8033		

Seq. No.	14777	Seq. ID	OJ990617_08.9926.C65
Gene No.	31434	Strand	-
Start	6953	End	8084
Name	OJ990617_08.9926.C65.o1.ts	Method	TBLASTX:Soybean
Start	4939	End	7910
GI	none	Score	216
Exons	4939..5082, 4944..5081, 7808..7906, 7818..7910		

Seq. No.	14777	Seq. ID	OJ990617_08.9926.C65
Gene No.	31434	Strand	-
Start	6953	End	8084
Name	OJ990617_08.9926.C65.o2.gs	Method	GENSCAN
Start	6953	End	7093
GI	none	Score	.65
Exons	6953..7093		

Seq. No.	14778	Seq. ID	OJ990617_08.9926.C66
Gene No.	31435	Strand	+
Start	1	End	1385
Name	OJ990617_08.9926.C66.o1.np	Method	AAT/NAP
Start	1	End	1385
GI	2335108	Score	163
Exons	1..81, 286..389, 1103..1211, 1302..1385		
GI Descrip.	(AC002339) putative zinc protease [Arabidopsis thaliana]		

Seq. No.	14778	Seq. ID	OJ990617_08.9926.C66
Gene No.	31436	Strand	-
Start	707	End	1204
Name	OJ990617_08.9926.C66.o1.gs	Method	GENSCAN
Start	707	End	1204
GI	none	Score	.55
Exons	707..739, 1076..1204		

Seq. No.	14779	Seq. ID	OJ990617_08.9926.C69
Gene No.	31437	Strand	+
Start	1	End	483
Name	OJ990617_08.9926.C69.o1.gp	Method	AAT/GAP
Start	1	End	483
GI	14616_1.R1084	Score	958
Exons	1..483		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	14779	Seq. ID	OJ990617_08.9926.C69
Gene No.	31438	Strand	-
Start	192	End	413
Name	OJ990617_08.9926.C69.o1.tm	Method	TBLASTX:Maize
Start	73	End	413
GI	none	Score	94
Exons	73..162, 127..216, 129..215, 234..413, 246..413		

Seq. No.	14779	Seq. ID	OJ990617_08.9926.C69
Gene No.	31438	Strand	-
Start	192	End	413
Name	OJ990617_08.9926.C69.o1.gs	Method	GENSCAN
Start	192	End	346
GI	none	Score	.5
Exons	192..346		

Seq. No.	14780	Seq. ID	OJ990617_08.9926.C70
Gene No.	31439	Strand	+
Start	76	End	3206
Name	OJ990617_08.9926.C70.o1.gs	Method	GENSCAN
Start	76	End	3206
GI	none	Score	.64
Exons	76..255, 2779..3206		

Seq. No.	14780	Seq. ID	OJ990617_08.9926.C70
Gene No.	31439	Strand	+
Start	76	End	3206
Name	OJ990617_08.9926.C70.o2.gp	Method	AAT/GAP
Start	533	End	1036
GI	3767735	Score	702
Exons	533..595, 633..1036		

Seq. No.	14780	Seq. ID	OJ990617_08.9926.C70
Gene No.	31440	Strand	+
Start	5494	End	6017
Name	OJ990617_08.9926.C70.o3.gs	Method	GENSCAN
Start	5494	End	6017
GI	none	Score	.64
Exons	5494..5586, 5847..6017		

Seq. No.	14780	Seq. ID	OJ990617_08.9926.C70
Gene No.	31441	Strand	+
Start	6437	End	7524
Name	OJ990617_08.9926.C70.o1.np	Method	AAT/NAP
Start	6437	End	7524
GI	6630696	Score	1855
Exons	6437..7524		

GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		
Seq. No.	14780	Seq. ID	OJ990617_08.9926.C70
Gene No.	31441	Strand	+
Start	6437	End	7524
Name	OJ990617_08.9926.C70.o4.gs	Method	GENSCAN
Start	6437	End	7443
GI	none	Score	.72
Exons	6437..7184, 7295..7443		
Seq. No.	14780	Seq. ID	OJ990617_08.9926.C70
Gene No.	31441	Strand	+
Start	6437	End	7524
Name	OJ990617_08.9926.C70.o3.gp	Method	AAT/GAP
Start	6479	End	7369
GI	101595_1.R1084	Score	1427
Exons	6479..7179, 7295..7369		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		
Seq. No.	14780	Seq. ID	OJ990617_08.9926.C70
Gene No.	31442	Strand	-
Start	72	End	227
Name	OJ990617_08.9926.C70.o1.gp	Method	AAT/GAP
Start	72	End	227
GI	14616_1.R1084	Score	278
Exons	72..227		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		
Seq. No.	14780	Seq. ID	OJ990617_08.9926.C70
Gene No.	31443	Strand	-
Start	4129	End	5254
Name	OJ990617_08.9926.C70.o2.gs	Method	GENSCAN
Start	4129	End	5254
GI	none	Score	.87
Exons	4129..4302, 4982..5254		
Seq. No.	14780	Seq. ID	OJ990617_08.9926.C70
Gene No.	31444	Strand	
Start	6331	End	6787
Name	OJ990617_08.9926.C70.o1.tw	Method	TBLASTX:Wheat
Start	6331	End	6728
GI	none	Score	128
Exons	6331..6429, 6332..6466, 6443..6727, 6517..6708, 6546..6728		
Seq. No.	14780	Seq. ID	OJ990617_08.9926.C70
Gene No.	31444	Strand	
Start	6331	End	6787
Name	OJ990617_08.9926.C70.o1.tm	Method	TBLASTX:Maize
Start	6479	End	6787
GI	none	Score	318
Exons	6479..6787, 6526..6708, 6579..6722, 6608..6784		
Seq. No.	14780	Seq. ID	OJ990617_08.9926.C70

Gene No.	31445	Strand	
Start	7304	End	7524
Name	OJ990617_08.9926.C70.o2.tm	Method	TBLASTX:Maize
Start	7304	End	7524
GI	none	Score	297
Exons	7304..7522, 7310..7522, 7312..7524, 7312..7524		

Seq. No.	14781	Seq. ID	OJ990617_08.9926.C72
Gene No.	31446	Strand	+
Start	1	End	294
Name	OJ990617_08.9926.C72.o1.np	Method	AAT/NAP
Start	1	End	294
GI	6498441	Score	416
Exons	1..294		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	14781	Seq. ID	OJ990617_08.9926.C72
Gene No.	31447	Strand	-
Start	33	End	82
Name	OJ990617_08.9926.C72.o1.gs	Method	GENSCAN
Start	33	End	82
GI	none	Score	.57
Exons	33..82		

Seq. No.	14782	Seq. ID	OJ990617_08.9926.C73
Gene No.	31448	Strand	+
Start	1	End	460
Name	OJ990617_08.9926.C73.o1.np	Method	AAT/NAP
Start	1	End	460
GI	6630696	Score	388
Exons	1..460		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	14782	Seq. ID	OJ990617_08.9926.C73
Gene No.	31448	Strand	+
Start	1	End	460
Name	OJ990617_08.9926.C73.o1.tw	Method	TBLASTX:Wheat
Start	100	End	394
GI	none	Score	324
Exons	100..393, 155..394		

Seq. No.	14782	Seq. ID	OJ990617_08.9926.C73
Gene No.	31448	Strand	+
Start	1	End	460
Name	OJ990617_08.9926.C73.o1.gs	Method	GENSCAN
Start	334	End	352
GI	none	Score	.81
Exons	334..352		

Seq. No.	14783	Seq. ID	OJ990617_08.9926.C74
Gene No.	31449	Strand	+
Start	210	End	271
Name	OJ990617_08.9926.C74.o1.gs	Method	GENSCAN

Start	210	End	271
GI	none	Score	.85
Exons	210..271		

Seq. No.	14784	Seq. ID	OJ990617_08.9926.C75
Gene No.	31450	Strand	+
Start	1039	End	1508
Name	OJ990617_08.9926.C75.o1.gs	Method	GENSCAN
Start	1039	End	1508
GI	none	Score	.73
Exons	1039..1103, 1319..1508		

Seq. No.	14784	Seq. ID	OJ990617_08.9926.C75
Gene No.	31451	Strand	-
Start	1798	End	2701
Name	OJ990617_08.9926.C75.o1.gp	Method	AAT/GAP
Start	1798	End	2701
GI	3450841	Score	1725
Exons	1798..2701		
GI Descrip.	3450842 0.0e+00 (AF080436) mitogen activated protein kinase kinase [Oryza sativa]		

Seq. No.	14784	Seq. ID	OJ990617_08.9926.C75
Gene No.	31451	Strand	-
Start	1798	End	2701
Name	OJ990617_08.9926.C75.o2.tm	Method	TBLASTX:Maize
Start	1952	End	2206
GI	none	Score	36
Exons	1952..1972, 1953..1973, 1994..2125, 1994..2131, 1995..2135, 2120..2206, 2121..2183, 2129..2185		

Seq. No.	14784	Seq. ID	OJ990617_08.9926.C75
Gene No.	31451	Strand	-
Start	1798	End	2701
Name	OJ990617_08.9926.C75.o1.tw	Method	TBLASTX:Wheat
Start	2048	End	2435
GI	none	Score	104
Exons	2048..2128, 2048..2128, 2103..2174, 2138..2173, 2231..2320, 2235..2324, 2236..2283, 2249..2320, 2330..2434, 2330..2434, 2346..2435, 2346..2435		

Seq. No.	14784	Seq. ID	OJ990617_08.9926.C75
Gene No.	31451	Strand	-
Start	1798	End	2701
Name	OJ990617_08.9926.C75.o1.np	Method	AAT/NAP
Start	2100	End	2701
GI	3450842	Score	1038
Exons	2100..2701		
GI Descrip.	(AF080436) mitogen activated protein kinase kinase [Oryza sativa]		

Seq. No.	14784	Seq. ID	OJ990617_08.9926.C75
Gene No.	31451	Strand	-
Start	1798	End	2701
Name	OJ990617_08.9926.C75.o1.tm	Method	TBLASTX:Maize
Start	2234	End	2700
GI	none	Score	260

Exons	2234..2467, 2236..2580, 2250..2585, 2584..2700, 2586..2699		
Seq. No.	14785	Seq. ID	OJ990617_08.9926.C76
Gene No.	31452	Strand	-
Start	1	End	1343
Name	OJ990617_08.9926.C76.o1.gp	Method	AAT/GAP
Start	1	End	1326
GI	3450841	Score	2115
Exons	1..521, 624..1056, 1166..1326		
GI Descrip.	3450842 0.0e+00 (AF080436) mitogen activated protein kinase kinase [Oryza sativa]		
Seq. No.	14785	Seq. ID	OJ990617_08.9926.C76
Gene No.	31452	Strand	-
Start	1	End	1343
Name	OJ990617_08.9926.C76.o1.tm	Method	TBLASTX:Maize
Start	1	End	516
GI	none	Score	102
Exons	1..168, 2..130, 3..164, 130..516, 135..515		
Seq. No.	14785	Seq. ID	OJ990617_08.9926.C76
Gene No.	31452	Strand	-
Start	1	End	1343
Name	OJ990617_08.9926.C76.o1.np	Method	AAT/NAP
Start	1	End	1343
GI	3450842	Score	1845
Exons	1..521, 624..1056, 1166..1343		
GI Descrip.	(AF080436) mitogen activated protein kinase kinase [Oryza sativa]		
Seq. No.	14785	Seq. ID	OJ990617_08.9926.C76
Gene No.	31452	Strand	-
Start	1	End	1343
Name	OJ990617_08.9926.C76.o1.tc	Method	TBLASTX:Cress
Start	202	End	1045
GI	none	Score	121
Exons	202..243, 262..522, 341..526, 396..536, 622..720, 623..721, 922..1044, 923..1045		
Seq. No.	14785	Seq. ID	OJ990617_08.9926.C76
Gene No.	31452	Strand	-
Start	1	End	1343
Name	OJ990617_08.9926.C76.o2.ts	Method	TBLASTX:Soybean
Start	346	End	526
GI	none	Score	117
Exons	346..522, 347..526		
Seq. No.	14785	Seq. ID	OJ990617_08.9926.C76
Gene No.	31452	Strand	-
Start	1	End	1343
Name	OJ990617_08.9926.C76.o1.gs	Method	GENSCAN
Start	388	End	1309
GI	none	Score	.81
Exons	388..521, 624..1056, 1166..1309		
Seq. No.	14785	Seq. ID	OJ990617_08.9926.C76
Gene No.	31452	Strand	-

Start	1	End	1343
Name	OJ990617_08.9926.C76.o1.ts	Method	TBLASTX:Soybean
Start	622	End	1325
GI	none	Score	59
Exons	622..657, 658..774, 817..1056, 913..1050, 923..1057, 1165..1263, 1166..1324, 1167..1325		

Seq. No.	14785	Seq. ID	OJ990617_08.9926.C76
Gene No.	31452	Strand	-
Start	1	End	1343
Name	OJ990617_08.9926.C76.o2.tm	Method	TBLASTX:Maize
Start	622	End	1017
GI	none	Score	152
Exons	622..747, 622..768, 751..774, 768..875, 781..864, 892..1017, 893..1015		

Seq. No.	14785	Seq. ID	OJ990617_08.9926.C76
Gene No.	31452	Strand	-
Start	1	End	1343
Name	OJ990617_08.9926.C76.o2.tc	Method	TBLASTX:Cress
Start	1157	End	1331
GI	none	Score	144
Exons	1157..1327, 1158..1331		

Seq. No.	14785	Seq. ID	OJ990617_08.9926.C76
Gene No.	31452	Strand	-
Start	1	End	1343
Name	OJ990617_08.9926.C76.o3.tm	Method	TBLASTX:Maize
Start	1166	End	1342
GI	none	Score	126
Exons	1166..1342, 1167..1325		

Seq. No.	14786	Seq. ID	OJ990617_08.9926.C78
Gene No.	31453	Strand	+
Start	105	End	575
Name	OJ990617_08.9926.C78.o1.gs	Method	GENSCAN
Start	105	End	575
GI	none	Score	.83
Exons	105..248, 287..367, 541..575		

Seq. No.	14787	Seq. ID	OJ990617_08.9926.C81
Gene No.	31454	Strand	-
Start	464	End	1082
Name	OJ990617_08.9926.C81.o1.gs	Method	GENSCAN
Start	464	End	1082
GI	none	Score	.46
Exons	464..576, 1013..1082		

Seq. No.	14788	Seq. ID	OJ990617_08.9926.C83
Gene No.	31455	Strand	-
Start	729	End	914
Name	OJ990617_08.9926.C83.o1.gs	Method	GENSCAN
Start	729	End	914
GI	none	Score	.8
Exons	729..914		

Seq. No.	14789	Seq. ID	OJ990617_08.9926.C85

Gene No.	31456	Strand	-
Start	1013	End	1261
Name	OJ990617_08.9926.C85.o1.gs	Method	GENSCAN
Start	1013	End	1261
GI	none	Score	.43
Exons	1013..1261		

Seq. No.	14790	Seq. ID	OJ990617_08.9926.C86
Gene No.	31457	Strand	+
Start	1	End	735
Name	OJ990617_08.9926.C86.o1.gp	Method	AAT/GAP
Start	1	End	426
GI	42451_1.R1084	Score	384
Exons	1..137, 291..426		
GI Descrip.	'5302775/emb|CAB46053.1| 9.0e-40 (Z97337) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	14790	Seq. ID	OJ990617_08.9926.C86
Gene No.	31457	Strand	+
Start	1	End	735
Name	OJ990617_08.9926.C86.o1.np	Method	AAT/NAP
Start	1	End	735
GI	2388561	Score	417
Exons	1..137, 291..735		
GI Descrip.	(AC000098) Similar to Arabidopsis hypothetical protein PID:e326839 (gb|Z97337). [Arabidopsis thaliana]		

Seq. No.	14790	Seq. ID	OJ990617_08.9926.C86
Gene No.	31457	Strand	+
Start	1	End	735
Name	OJ990617_08.9926.C86.o1.tm	Method	TBLASTX:Maize
Start	56	End	584
GI	none	Score	102
Exons	56..139, 58..138, 289..465, 290..466, 294..485, 476..577, 492..584, 511..576		

Seq. No.	14790	Seq. ID	OJ990617_08.9926.C86
Gene No.	31457	Strand	+
Start	1	End	735
Name	OJ990617_08.9926.C86.o1.ts	Method	TBLASTX:Soybean
Start	56	End	576
GI	none	Score	119
Exons	56..139, 58..138, 289..468, 290..469, 461..574, 463..576		

Seq. No.	14790	Seq. ID	OJ990617_08.9926.C86
Gene No.	31457	Strand	+
Start	1	End	735
Name	OJ990617_08.9926.C86.o1.tc	Method	TBLASTX:Cress
Start	308	End	586
GI	none	Score	223
Exons	308..463, 310..459, 476..586, 478..576, 482..580		

Seq. No.	14790	Seq. ID	OJ990617_08.9926.C86
Gene No.	31457	Strand	+
Start	1	End	735
Name	OJ990617_08.9926.C86.o1.gs	Method	GENSCAN
Start	324	End	578

GI	none	Score	.43
Exons	324..578		

Seq. No.	14791	Seq. ID	OJ990617_08.9926.C87
Gene No.	31458	Strand	
Start	72	End	323
Name	OJ990617_08.9926.C87.o1.tw	Method	TBLASTX:Wheat
Start	72	End	323
GI	none	Score	83
Exons	72..209, 75..167, 76..225, 98..208, 175..240, 176..241, 176..241, 184..243, 241..321, 252..323, 253..321, 254..322		

Seq. No.	14792	Seq. ID	OJ990617_08.9926.C88
Gene No.	31459	Strand	+
Start	1	End	642
Name	OJ990617_08.9926.C88.o1.np	Method	AAT/NAP
Start	1	End	489
GI	4587563	Score	533
Exons	1..489		
GI Descrip.	(AC006550) Similar to gb|U51990 pre-mRNA-splicing factor hPrp18 from Homo sapiens. ESTs gb|T46391 and gb|AA721815 come from this gene. [Arabidopsis thaliana]		

Seq. No.	14792	Seq. ID	OJ990617_08.9926.C88
Gene No.	31459	Strand	+
Start	1	End	642
Name	OJ990617_08.9926.C88.o1.gs	Method	GENSCAN
Start	82	End	489
GI	none	Score	.83
Exons	82..489		

Seq. No.	14792	Seq. ID	OJ990617_08.9926.C88
Gene No.	31459	Strand	+
Start	1	End	642
Name	OJ990617_08.9926.C88.o1.gp	Method	AAT/GAP
Start	85	End	642
GI	8231_1.R1084	Score	960
Exons	85..642		
GI Descrip.	'4587563/gb|AAD25794.1|AC006550_2 1.0e-23 (AC006550) Similar to gb_U51990 pre-mRNA-splicing factor hPrp18 from Homo sapiens. ESTs gb_T46391 and gb_AA721815 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	14792	Seq. ID	OJ990617_08.9926.C88
Gene No.	31460	Strand	-
Start	420	End	1453
Name	OJ990617_08.9926.C88.o1.tm	Method	TBLASTX:Maize
Start	80	End	641
GI	none	Score	426
Exons	80..415, 81..428, 81..419, 88..453, 415..585, 451..573, 570..641		

Seq. No.	14792	Seq. ID	OJ990617_08.9926.C88
Gene No.	31460	Strand	-
Start	420	End	1453
Name	OJ990617_08.9926.C88.o1.ts	Method	TBLASTX:Soybean
Start	81	End	294
GI	none	Score	214

Exons	81..293, 81..293, 88..294		
Seq. No.	14792	Seq. ID	OJ990617_08.9926.C88
Gene No.	31460	Strand	-
Start	420	End	1453
Name	OJ990617_08.9926.C88.o1.tw	Method	TBLASTX:Wheat
Start	81	End	399
GI	none	Score	464
Exons	81..398, 81..398, 88..399		
Seq. No.	14792	Seq. ID	OJ990617_08.9926.C88
Gene No.	31460	Strand	-
Start	420	End	1453
Name	OJ990617_08.9926.C88.o1.tc	Method	TBLASTX:Cress
Start	175	End	453
GI	none	Score	392
Exons	175..453, 177..407		
Seq. No.	14792	Seq. ID	OJ990617_08.9926.C88
Gene No.	31460	Strand	-
Start	420	End	1453
Name	OJ990617_08.9926.C88.o2.np	Method	AAT/NAP
Start	420	End	1453
GI	3859568	Score	75
Exons	420..465, 1001..1023, 1104..1179, 1359..1453		
GI Descrip.	(AF098752) unknown [Oryza sativa]		
Seq. No.	14793	Seq. ID	OJ990617_08.9926.C89
Gene No.	31461	Strand	-
Start	1	End	2287
Name	OJ990617_08.9926.C89.o1.np	Method	AAT/NAP
Start	1	End	2287
GI	6907089	Score	1758
Exons	1..34, 628..2209, 2261..2287		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	14793	Seq. ID	OJ990617_08.9926.C89
Gene No.	31461	Strand	-
Start	1	End	2287
Name	OJ990617_08.9926.C89.o1.gs	Method	GENSCAN
Start	572	End	2210
GI	none	Score	.87
Exons	572..1924, 2054..2210		
Seq. No.	14794	Seq. ID	OJ990617_08.9926.C90
Gene No.	31462	Strand	+
Start	21	End	1259
Name	OJ990617_08.9926.C90.o1.gs	Method	GENSCAN
Start	21	End	1259
GI	none	Score	.7
Exons	21..29, 50..398, 568..712, 1154..1259		
Seq. No.	14794	Seq. ID	OJ990617_08.9926.C90
Gene No.	31463	Strand	-
Start	1	End	667
Name	OJ990617_08.9926.C90.o1.np	Method	AAT/NAP
Start	1	End	667

GI	6907089	Score	1014
Exons	1..667		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	14795	Seq. ID	OJ990617_08.9926.C93
Gene No.	31464	Strand	+
Start	1514	End	1699
Name	OJ990617_08.9926.C93.o1.gs	Method	GENSCAN
Start	1514	End	1699
GI	none	Score	.53
Exons	1514..1699		

Seq. No.	14796	Seq. ID	OJ990617_08.9926.C94
Gene No.	31465	Strand	+
Start	416	End	2815
Name	OJ990617_08.9926.C94.o1.gs	Method	GENSCAN
Start	416	End	2815
GI	none	Score	.53
Exons	416..602, 2670..2815		

Seq. No.	14797	Seq. ID	OJ990617_08.9926.C95
Gene No.	31466	Strand	+
Start	635	End	1387
Name	OJ990617_08.9926.C95.o1.gs	Method	GENSCAN
Start	635	End	1387
GI	none	Score	.59
Exons	635..707, 823..866, 1217..1387		

Seq. No.	14798	Seq. ID	OJ990617_08.9926.C96
Gene No.	31467	Strand	+
Start	1	End	422
Name	OJ990617_08.9926.C96.o1.np	Method	AAT/NAP
Start	1	End	422
GI	3450842	Score	353
Exons	1..422		
GI Descrip.	(AF080436) mitogen activated protein kinase kinase [Oryza sativa]		

Seq. No.	14798	Seq. ID	OJ990617_08.9926.C96
Gene No.	31467	Strand	+
Start	1	End	422
Name	OJ990617_08.9926.C96.o1.ts	Method	TBLASTX:Soybean
Start	62	End	294
GI	none	Score	234
Exons	62..241, 80..241, 82..249, 237..293, 238..294		

Seq. No.	14798	Seq. ID	OJ990617_08.9926.C96
Gene No.	31467	Strand	+
Start	1	End	422
Name	OJ990617_08.9926.C96.o1.gp	Method	AAT/GAP
Start	88	End	314
GI	3450841	Score	385
Exons	88..314		
GI Descrip.	3450842 0.0e+00 (AF080436) mitogen activated protein kinase kinase [Oryza sativa]		

Seq. No.	14798	Seq. ID	OJ990617_08.9926.C96

Gene No.	31467	Strand	+
Start	1	End	422
Name	OJ990617_08.9926.C96.o1.tm	Method	TBLASTX:Maize
Start	89	End	309
GI	none	Score	234
Exons	89..244, 89..238, 97..249, 237..269, 238..309		

Seq. No.	14798	Seq. ID	OJ990617_08.9926.C96
Gene No.	31467	Strand	+
Start	1	End	422
Name	OJ990617_08.9926.C96.o1.gs	Method	GENSCAN
Start	104	End	303
GI	none	Score	.52
Exons	104..303		

Seq. No.	14798	Seq. ID	OJ990617_08.9926.C96
Gene No.	31467	Strand	+
Start	1	End	422
Name	OJ990617_08.9926.C96.o1.tc	Method	TBLASTX:Cress
Start	107	End	344
GI	none	Score	213
Exons	107..244, 109..249, 237..344, 238..309		

Seq. No.	14799	Seq. ID	OJ990617_08.9926.C97
Gene No.	31468	Strand	-
Start	1	End	477
Name	OJ990617_08.9926.C97.o1.np	Method	AAT/NAP
Start	1	End	477
GI	6630696	Score	837
Exons	1..477		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	14799	Seq. ID	OJ990617_08.9926.C97
Gene No.	31468	Strand	-
Start	1	End	477
Name	OJ990617_08.9926.C97.o1.tw	Method	TBLASTX:Wheat
Start	97	End	477
GI	none	Score	189
Exons	97..285, 101..286, 346..477, 379..474		

Seq. No.	14800	Seq. ID	OJ990617_08.9926.C98
Gene No.	31469	Strand	+
Start	1	End	641
Name	OJ990617_08.9926.C98.o1.np	Method	AAT/NAP
Start	1	End	641
GI	6498441	Score	998
Exons	1..641		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	14800	Seq. ID	OJ990617_08.9926.C98
Gene No.	31470	Strand	-
Start	132	End	525
Name	OJ990617_08.9926.C98.o1.tm	Method	TBLASTX:Maize

Start	67	End	369
GI	none	Score	329
Exons	67..330, 69..317, 127..339, 322..369		

Seq. No.	14800	Seq. ID	OJ990617_08.9926.C98
Gene No.	31470	Strand	-
Start	132	End	525
Name	OJ990617_08.9926.C98.o1.gs	Method	GENSCAN
Start	132	End	463
GI	none	Score	.48
Exons	132..463		

Seq. No.	14800	Seq. ID	OJ990617_08.9926.C98
Gene No.	31470	Strand	-
Start	132	End	525
Name	OJ990617_08.9926.C98.o1.tw	Method	TBLASTX:Wheat
Start	144	End	525
GI	none	Score	374
Exons	144..494, 145..525		

Seq. No.	14801	Seq. ID	OJ990727_02.9924.C1
Gene No.	31471	Strand	-
Start	1	End	426
Name	OJ990727_02.9924.C1.o1.np	Method	AAT/NAP
Start	1	End	426
GI	6705984	Score	613
Exons	1..426		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	14801	Seq. ID	OJ990727_02.9924.C1
Gene No.	31471	Strand	-
Start	1	End	426
Name	OJ990727_02.9924.C1.o1.tw	Method	TBLASTX:Wheat
Start	1	End	279
GI	none	Score	246
Exons	1..279, 1..144, 3..278		

Seq. No.	14801	Seq. ID	OJ990727_02.9924.C1
Gene No.	31471	Strand	-
Start	1	End	426
Name	OJ990727_02.9924.C1.o1.ts	Method	TBLASTX:Soybean
Start	1	End	267
GI	none	Score	59
Exons	1..84, 6..86, 82..267, 90..266		

Seq. No.	14801	Seq. ID	OJ990727_02.9924.C1
Gene No.	31471	Strand	-
Start	1	End	426
Name	OJ990727_02.9924.C1.o1.tm	Method	TBLASTX:Maize
Start	39	End	392
GI	none	Score	96
Exons	39..392, 54..341		

Seq. No.	14801	Seq. ID	OJ990727_02.9924.C1
Gene No.	31471	Strand	-
Start	1	End	426
Name	OJ990727_02.9924.C1.o2.ts	Method	TBLASTX:Soybean

Start	270	End	423
GI	none	Score	118
Exons	270..422, 271..423		

Seq. No.	14802	Seq. ID	OJ990727_02.9924.C2
Gene No.	31472	Strand	+
Start	1	End	3779
Name	OJ990727_02.9924.C2.o1.np	Method	AAT/NAP
Start	1	End	1401
GI	5295955	Score	664
Exons	1..34, 203..502, 536..651, 769..1401		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	14802	Seq. ID	OJ990727_02.9924.C2
Gene No.	31472	Strand	+
Start	1	End	3779
Name	OJ990727_02.9924.C2.o2.np	Method	AAT/NAP
Start	1	End	3779
GI	134780	Score	75
Exons	1..41, 2525..2727, 3414..3779		
GI Descrip.	SPORE COAT PROTEIN SP96 gi|84145|pir||S07638 spore coat protein SP96 precursor - slime mold (Dictyostelium discoideum) gi|295736|emb|CAA34508| (X16491) spore coat protein sp96 [Dictyostelium discoideum]		

Seq. No.	14802	Seq. ID	OJ990727_02.9924.C2
Gene No.	31472	Strand	+
Start	1	End	3779
Name	OJ990727_02.9924.C2.o1.gs	Method	GENSCAN
Start	398	End	856
GI	none	Score	.89
Exons	398..856		

Seq. No.	14802	Seq. ID	OJ990727_02.9924.C2
Gene No.	31473	Strand	-
Start	1724	End	4541
Name	OJ990727_02.9924.C2.o2.gs	Method	GENSCAN
Start	1724	End	4541
GI	none	Score	.77
Exons	1724..1867, 1966..2951, 3040..3942, 4080..4139, 4409..4541		

Seq. No.	14802	Seq. ID	OJ990727_02.9924.C2
Gene No.	31474	Strand	
Start	4995	End	5359
Name	OJ990727_02.9924.C2.o1.tw	Method	TBLASTX:Wheat
Start	4995	End	5320
GI	none	Score	84
Exons	4995..5156, 5020..5127, 5192..5320		

Seq. No.	14802	Seq. ID	OJ990727_02.9924.C2
Gene No.	31474	Strand	
Start	4995	End	5359
Name	OJ990727_02.9924.C2.o1.tm	Method	TBLASTX:Maize
Start	5088	End	5359
GI	none	Score	66
Exons	5088..5162, 5162..5344, 5177..5359		

Seq. No.	14803	Seq. ID	OJ990727_02.9924.C3
Gene No.	31475	Strand	-
Start	1	End	1359
Name	OJ990727_02.9924.C3.o1.np	Method	AAT/NAP
Start	1	End	1359
GI	4680181	Score	176
Exons	1..21, 830..1359		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	14803	Seq. ID	OJ990727_02.9924.C3
Gene No.	31475	Strand	-
Start	1	End	1359
Name	OJ990727_02.9924.C3.o1.gs	Method	GENSCAN
Start	763	End	1284
GI	none	Score	.62
Exons	763..1284		

Seq. No.	14804	Seq. ID	OJ990727_02.9924.C4
Gene No.	31476	Strand	-
Start	1	End	1615
Name	OJ990727_02.9924.C4.o1.np	Method	AAT/NAP
Start	1	End	1615
GI	4680182	Score	522
Exons	1..307, 336..686, 945..1615		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	14804	Seq. ID	OJ990727_02.9924.C4
Gene No.	31476	Strand	-
Start	1	End	1615
Name	OJ990727_02.9924.C4.o1.gs	Method	GENSCAN
Start	115	End	1615
GI	none	Score	.4
Exons	115..1214, 1220..1615		

Seq. No.	14804	Seq. ID	OJ990727_02.9924.C4
Gene No.	31477	Strand	-
Start	4405	End	7565
Name	OJ990727_02.9924.C4.o2.tm	Method	TBLASTX:Maize
Start	1403	End	1616
GI	none	Score	122
Exons	1403..1612, 1406..1597, 1413..1616, 1413..1616		

Seq. No.	14804	Seq. ID	OJ990727_02.9924.C4
Gene No.	31477	Strand	-
Start	4405	End	7565
Name	OJ990727_02.9924.C4.o2.gs	Method	GENSCAN
Start	4405	End	7466
GI	none	Score	.44
Exons	4405..4612, 4789..4936, 5501..5544, 5737..6524, 7229..7322, 7372..7466		

Seq. No.	14804	Seq. ID	OJ990727_02.9924.C4
Gene No.	31477	Strand	-
Start	4405	End	7565
Name	OJ990727_02.9924.C4.o2.np	Method	AAT/NAP
Start	5736	End	7565

GI	6539553	Score	1384
Exons	5736..6633, 7528..7565		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	14804	Seq. ID	OJ990727_02.9924.C4
Gene No.	31477	Strand	-
Start	4405	End	7565
Name	OJ990727_02.9924.C4.o1.tw	Method	TBLASTX:Wheat
Start	5872	End	6348
GI	none	Score	366
Exons	5872..6258, 5873..6256, 5910..6266, 6259..6342, 6273..6347, 6275..6346, 6277..6348		

Seq. No.	14804	Seq. ID	OJ990727_02.9924.C4
Gene No.	31477	Strand	-
Start	4405	End	7565
Name	OJ990727_02.9924.C4.o1.tm	Method	TBLASTX:Maize
Start	6205	End	6542
GI	none	Score	184
Exons	6205..6528, 6216..6536, 6237..6542		

Seq. No.	14804	Seq. ID	OJ990727_02.9924.C4
Gene No.	31477	Strand	-
Start	4405	End	7565
Name	OJ990727_02.9924.C4.o1.ts	Method	TBLASTX:Soybean
Start	6354	End	6632
GI	none	Score	208
Exons	6354..6632		

Seq. No.	14805	Seq. ID	OJ990727_02.9924.C5
Gene No.	31478	Strand	-
Start	1	End	1442
Name	OJ990727_02.9924.C5.o1.np	Method	AAT/NAP
Start	1	End	1442
GI	6539553	Score	1500
Exons	1..36, 471..1442		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	14805	Seq. ID	OJ990727_02.9924.C5
Gene No.	31478	Strand	-
Start	1	End	1442
Name	OJ990727_02.9924.C5.o2.tw	Method	TBLASTX:Wheat
Start	474	End	941
GI	none	Score	88
Exons	474..602, 597..941, 621..794		

Seq. No.	14805	Seq. ID	OJ990727_02.9924.C5
Gene No.	31478	Strand	-
Start	1	End	1442
Name	OJ990727_02.9924.C5.o1.tm	Method	TBLASTX:Maize
Start	477	End	941

GI	none	Score	83
Exons	477..941, 624..806		

Seq. No.	14805	Seq. ID	OJ990727_02.9924.C5
Gene No.	31478	Strand	-
Start	1	End	1442
Name	OJ990727_02.9924.C5.o1.ts	Method	TBLASTX:Soybean
Start	612	End	1049
GI	5509260	Score	60
Exons	612..1049, 631..684, 763..981		
GI Descrip.	-		

Seq. No.	14805	Seq. ID	OJ990727_02.9924.C5
Gene No.	31478	Strand	-
Start	1	End	1442
Name	OJ990727_02.9924.C5.o1.tc	Method	TBLASTX:Cress
Start	723	End	983
GI	none	Score	101
Exons	723..983, 811..981		

Seq. No.	14805	Seq. ID	OJ990727_02.9924.C5
Gene No.	31478	Strand	-
Start	1	End	1442
Name	OJ990727_02.9924.C5.o1.tw	Method	TBLASTX:Wheat
Start	996	End	1441
GI	none	Score	253
Exons	996..1355, 996..1358, 1249..1356, 1352..1441, 1358..1441		

Seq. No.	14806	Seq. ID	OJ990727_02.9924.C6
Gene No.	31479	Strand	+
Start	6314	End	6610
Name	OJ990727_02.9924.C6.o3.np	Method	AAT/NAP
Start	6314	End	6610
GI	862343	Score	103
Exons	6314..6498, 6546..6610		
GI Descrip.	(L10908) Gcap1 gene product [Mus musculus] gi|1092097|prf||2022314A granule cell marker protein [Mus musculus] gi|1092098|prf||2022315A granule cell marker protein [Mus musculus]		

Seq. No.	14806	Seq. ID	OJ990727_02.9924.C6
Gene No.	31480	Strand	-
Start	1	End	1602
Name	OJ990727_02.9924.C6.o1.np	Method	AAT/NAP
Start	1	End	1602
GI	6539553	Score	2599
Exons	1..1602		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	14806	Seq. ID	OJ990727_02.9924.C6
Gene No.	31480	Strand	-
Start	1	End	1602
Name	OJ990727_02.9924.C6.o1.gs	Method	GENSCAN
Start	324	End	1511

GI	none	Score	.49
Exons	324..867, 878..1104, 1125..1511		

Seq. No.	14806	Seq. ID	OJ990727_02.9924.C6
Gene No.	31481	Strand	-
Start	1766	End	8839
Name	OJ990727_02.9924.C6.o1.tm	Method	TBLASTX:Maize
Start	362	End	684
GI	none	Score	389
Exons	362..529, 363..677, 364..657, 430..684		

Seq. No.	14806	Seq. ID	OJ990727_02.9924.C6
Gene No.	31481	Strand	-
Start	1766	End	8839
Name	OJ990727_02.9924.C6.o2.tm	Method	TBLASTX:Maize
Start	1162	End	1475
GI	none	Score	278
Exons	1162..1467, 1164..1475		

Seq. No.	14806	Seq. ID	OJ990727_02.9924.C6
Gene No.	31481	Strand	-
Start	1766	End	8839
Name	OJ990727_02.9924.C6.o1.tw	Method	TBLASTX:Wheat
Start	1223	End	1608
GI	none	Score	200
Exons	1223..1375, 1224..1523, 1225..1494, 1227..1523, 1532..1597, 1543..1608		

Seq. No.	14806	Seq. ID	OJ990727_02.9924.C6
Gene No.	31481	Strand	-
Start	1766	End	8839
Name	OJ990727_02.9924.C6.o2.gs	Method	GENSCAN
Start	1766	End	8735
GI	none	Score	.55
Exons	1766..1977, 2556..2742, 3457..3658, 4937..5080, 6018..6122, 6605..6786, 7080..7152, 7254..7364, 7458..7631, 7720..8488, 8593..8735		

Seq. No.	14806	Seq. ID	OJ990727_02.9924.C6
Gene No.	31481	Strand	-
Start	1766	End	8839
Name	OJ990727_02.9924.C6.o2.np	Method	AAT/NAP
Start	4638	End	8839
GI	5922631	Score	148
Exons	4638..4667, 5923..6116, 8818..8839		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativ		

Seq. No.	14806	Seq. ID	OJ990727_02.9924.C6
Gene No.	31481	Strand	-
Start	1766	End	8839
Name	OJ990727_02.9924.C6.o2.tw	Method	TBLASTX:Wheat

Start	7286	End	7944
GI	none	Score	46
Exons	7286..7366, 7293..7367, 7445..7645, 7448..7633, 7713..7793, 7719..7784, 7876..7944		

Seq. No.	14807	Seq. ID	OJ990727_02.9924.C7
Gene No.	31482	Strand	-
Start	1	End	943
Name	OJ990727_02.9924.C7.o1.np	Method	AAT/NAP
Start	1	End	943
GI	4680204	Score	484
Exons	1..943		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	14807	Seq. ID	OJ990727_02.9924.C7
Gene No.	31482	Strand	-
Start	1	End	943
Name	OJ990727_02.9924.C7.o1.tw	Method	TBLASTX:Wheat
Start	48	End	349
GI	none	Score	61
Exons	48..341, 52..222, 108..311, 208..348, 215..349		

Seq. No.	14807	Seq. ID	OJ990727_02.9924.C7
Gene No.	31482	Strand	-
Start	1	End	943
Name	OJ990727_02.9924.C7.o1.gs	Method	GENSCAN
Start	428	End	862
GI	none	Score	.78
Exons	428..862		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31483	Strand	+
Start	467	End	3367
Name	OJ990727_02.9924.C9.o1.gp	Method	AAT/GAP
Start	442	End	574
GI	none	Score	199
Exons	442..574		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31483	Strand	+
Start	467	End	3367
Name	OJ990727_02.9924.C9.o1.gs	Method	GENSCAN
Start	467	End	3367
GI	none	Score	.71
Exons	467..907, 1757..1818, 2854..3367		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31483	Strand	+
Start	467	End	3367
Name	OJ990727_02.9924.C9.o1.np	Method	AAT/NAP
Start	473	End	2884
GI	109219	Score	117
Exons	473..783, 2854..2884		
GI Descrip.	dimethylaniline monooxygenase (N-oxide-forming) (EC 1.14.13.8), hepatic 1 - rabbit		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9

Gene No.	31484	Strand	+
Start	5116	End	6659
Name	OJ990727_02.9924.C9.o2.gp	Method	AAT/GAP
Start	5070	End	5518
GI	uC-osflcyp082e08b1	Score	582
Exons	5070..5221, 5342..5518		
GI Descrip.	'4835909/gb|AAD30294.1|AF139190_1 3.0e-33 (AF139190) cytosolic ascorbate peroxidase [Mesembryanthemum crystallinum]'		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31484	Strand	+
Start	5116	End	6659
Name	OJ990727_02.9924.C9.o2.gs	Method	GENSCAN
Start	5116	End	6431
GI	none	Score	.92
Exons	5116..5221, 5342..5517, 5620..5972, 6074..6431		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31484	Strand	+
Start	5116	End	6659
Name	OJ990727_02.9924.C9.o3.gp	Method	AAT/GAP
Start	6175	End	6659
GI	none	Score	863
Exons	6175..6659		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31485	Strand	+
Start	8478	End	13224
Name	OJ990727_02.9924.C9.o4.gp	Method	AAT/GAP
Start	8478	End	9623
GI	60062_1.R1084	Score	806
Exons	8478..8646, 8791..8915, 9047..9096, 9413..9478, 9573..9623		
GI Descrip.	'3036801/emb|CAA18491| 9.0e-35 (AL022373) putative ascorbate peroxidase [Arabidopsis thaliana] >gi_3805863_emb_CAA21483.1_ (AL031986) putative ascorbate peroxidase [Arabidopsis thaliana]'		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31485	Strand	+
Start	8478	End	13224
Name	OJ990727_02.9924.C9.o2.np	Method	AAT/NAP
Start	8534	End	10910
GI	5442410	Score	886
Exons	8534..8646, 8791..8915, 9047..9096, 9413..9478, 9573..9621, 9893..9975, 10070..10149, 10307..10409, 10710..10910		
GI Descrip.	(AF159254) ascorbate peroxidase [Zantedeschia aethiopica]		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31485	Strand	+
Start	8478	End	13224
Name	OJ990727_02.9924.C9.o4.gs	Method	GENSCAN
Start	9139	End	10913
GI	none	Score	.96
Exons	9139..9359, 9413..9443, 9573..9621, 10059..10149, 10307..10409, 10710..10913		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31485	Strand	+

Start	8478	End	13224
Name	OJ990727_02.9924.C9.o3.np	Method	AAT/NAP
Start	9397	End	13224
GI	6630685	Score	1531
Exons	9397..9421, 11730..13224		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31485	Strand	+
Start	8478	End	13224
Name	OJ990727_02.9924.C9.o5.gp	Method	AAT/GAP
Start	10044	End	11121
GI	3767632	Score	1070
Exons	10044..10149, 10307..10409, 10710..11121		
GI Descrip.	4835909/gb|AAD30294.1|AF139190_1 3.0e-33 (AF139190) cytosolic ascorbate peroxidase [Mesembryanthemum crystallinum]		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31485	Strand	+
Start	8478	End	13224
Name	OJ990727_02.9924.C9.o5.gs	Method	GENSCAN
Start	11743	End	12849
GI	none	Score	.79
Exons	11743..12849		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31486	Strand	+
Start	14757	End	37988
Name	OJ990727_02.9924.C9.o6.gs	Method	GENSCAN
Start	14757	End	37988
GI	none	Score	.7
Exons	14757..14850, 15064..15292, 15464..15551, 15956..16051, 16604..16765, 17119..17237, 17583..17619, 17711..17791, 18175..18369, 20717..20827, 20997..21062, 22019..22126, 22460..22516, 23181..23244, 23611..23639, 23786..23868, 25057..25108, 25272..25331, 26079..26185, 26759..26881, 30264..30344, 31251..31308, 31385..31452, 32749..32836, 33443..33532, 35717..36085, 36309..36399, 36501..36583, 37602..37638, 37816..37988		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31486	Strand	+
Start	14757	End	37988
Name	OJ990727_02.9924.C9.o4.np	Method	AAT/NAP
Start	15037	End	16675
GI	6539588	Score	84
Exons	15037..15357, 16614..16675		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31486	Strand	+
Start	14757	End	37988
Name	OJ990727_02.9924.C9.o5.np	Method	AAT/NAP
Start	15279	End	15504
GI	6498430	Score	88
Exons	15279..15504		

GI Descrip. (AP000815) hypothetical protein [Oryza sativa]

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31486	Strand	+
Start	14757	End	37988
Name	OJ990727_02.9924.C9.o7.np	Method	AAT/NAP
Start	17399	End	31301
GI	4678307	Score	1236
Exons	17399..17458, 17587..17619, 17711..17791, 18175..18369, 20717..20857, 20997..21062, 22019..22126, 22203..22247, 22460..22516, 23181..23288, 25244..25331, 25918..26007, 26079..26185, 26759..26896, 28981..29062, 29168..29238, 30264..30348, 31251..31301		
GI Descrip.	(AL049655) vacuolar protein sorting-like protein [Arabidopsis thaliana]		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31487	Strand	+
Start	41186	End	41458
Name	OJ990727_02.9924.C9.o8.gs	Method	GENSCAN
Start	41186	End	41458
GI	none	Score	.94
Exons	41186..41458		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31488	Strand	+
Start	44824	End	45105
Name	OJ990727_02.9924.C9.o10.gs	Method	GENSCAN
Start	44824	End	45105
GI	none	Score	.71
Exons	44824..45105		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31489	Strand	+
Start	45257	End	45483
Name	OJ990727_02.9924.C9.o6.gp	Method	AAT/GAP
Start	45257	End	45483
GI	uC-osroM202024h08a1	Score	326
Exons	45257..45483		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 5.0e-84 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31490	Strand	+
Start	46050	End	47270
Name	OJ990727_02.9924.C9.o8.gp	Method	AAT/GAP
Start	45953	End	46474
GI	uC-osflM202048c12b1	Score	838
Exons	45953..46474		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 2.0e-16 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31490	Strand	+
Start	46050	End	47270
Name	OJ990727_02.9924.C9.o11.gs	Method	GENSCAN
Start	46050	End	47270

GI	none	Score	.91
Exons	46050..46156, 46922..47270		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31490	Strand	+
Start	46050	End	47270
Name	OJ990727_02.9924.C9.o9.gp	Method	AAT/GAP
Start	46615	End	46681
GI	uC-osroM202024h08a1	Score	88
Exons	46615..46681		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 5.0e-84 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31491	Strand	+
Start	53885	End	54111
Name	OJ990727_02.9924.C9.o10.gp	Method	AAT/GAP
Start	53885	End	54111
GI	uC-osroM202024h08a1	Score	322
Exons	53885..54111		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 5.0e-84 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31492	Strand	-
Start	8263	End	8850
Name	OJ990727_02.9924.C9.o3.gs	Method	GENSCAN
Start	8263	End	8850
GI	none	Score	.5
Exons	8263..8850		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31493	Strand	-
Start	14100	End	17326
Name	OJ990727_02.9924.C9.o6.np	Method	AAT/NAP
Start	14100	End	17326
GI	2529683	Score	70
Exons	14100..14142, 16085..16166, 16227..16541, 17187..17326		
GI Descrip.	(AC002535) unknown protein [Arabidopsis thaliana]		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31494	Strand	-
Start	39083	End	42592
Name	OJ990727_02.9924.C9.o8.np	Method	AAT/NAP
Start	39038	End	42592
GI	5852172	Score	111
Exons	39038..39198, 42567..42592		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31494	Strand	-
Start	39083	End	42592
Name	OJ990727_02.9924.C9.o7.gs	Method	GENSCAN
Start	39083	End	40284
GI	none	Score	.99
Exons	39083..39198, 40230..40284		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31495	Strand	-
Start	46023	End	46464
Name	OJ990727_02.9924.C9.o7.gp	Method	AAT/GAP
Start	46023	End	46464
GI	2428185	Score	551
Exons	46023..46464		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31496	Strand	-
Start	47999	End	52234
Name	OJ990727_02.9924.C9.o12.gs	Method	GENSCAN
Start	47999	End	52188
GI	none	Score	.88
Exons	47999..48898, 49123..52188		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31496	Strand	-
Start	47999	End	52234
Name	OJ990727_02.9924.C9.o9.np	Method	AAT/NAP
Start	48002	End	52234
GI	4680179	Score	5013
Exons	48002..51141, 51169..52234		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o8.tm	Method	TBLASTX:Maize
Start	466	End	751
GI	none	Score	319
Exons	466..750, 467..751		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o4.ts	Method	TBLASTX:Soybean
Start	473	End	5043
GI	none	Score	309
Exons	473..793, 481..792, 790..849, 791..856, 4966..5043		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o3.tc	Method	TBLASTX:Cress
Start	4981	End	5442
GI	none	Score	219
Exons	4981..5220, 4986..5114, 5356..5442, 5359..5412		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o8.ts	Method	TBLASTX:Soybean
Start	5140	End	5739
GI	none	Score	104

Exons	5140..5223, 5142..5222, 5340..5522, 5341..5475, 5653..5739		
Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o7.tm	Method	TBLASTX:Maize
Start	5344	End	5796
GI	none	Score	224
Exons	5344..5418, 5352..5522, 5353..5478, 5596..5784, 5605..5796, 5619..5795		
Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o6.ts	Method	TBLASTX:Soybean
Start	5744	End	5973
GI	none	Score	69
Exons	5744..5923, 5749..5973, 5754..5972		
Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o10.tm	Method	TBLASTX:Maize
Start	5802	End	6221
GI	none	Score	151
Exons	5802..5966, 5803..5973, 6069..6221, 6071..6211		
Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o15.tm	Method	TBLASTX:Maize
Start	6270	End	6428
GI	none	Score	229
Exons	6270..6428, 6272..6418		
Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o13.tm	Method	TBLASTX:Maize
Start	8388	End	10790
GI	none	Score	37
Exons	8388..8468, 8543..8644, 8573..8644, 8770..8910, 8795..8914, 9046..9099, 9407..9484, 9410..9472, 9570..9623, 9572..9622, 9879..9974, 9888..9974, 9889..9975, 9889..9975, 10051..10143, 10061..10150, 10065..10118, 10069..10155, 10186..10245, 10192..10242, 10308..10409, 10343..10411, 10706..10777, 10710..10790		
Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o2.tc	Method	TBLASTX:Cress
Start	8543	End	10790
GI	none	Score	133
Exons	8543..8644, 8770..8910, 8795..8911, 9046..9099, 9407..9484, 9570..9623, 9875..9973, 9889..9975, 9891..9974, 9892..9975, 10051..10143, 10061..10150, 10069..10155, 10076..10165,		

10192..10242, 10192..10257, 10308..10409, 10343..10411, 10706..10789, 10710..10790

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o7.ts	Method	TBLASTX:Soybean
Start	9043	End	10778
GI	none	Score	71
Exons	9043..9099, 9407..9484, 9448..9480, 9570..9623, 9572..9622, 9879..9971, 9889..9975, 10061..10150, 10069..10155, 10192..10242, 10308..10409, 10343..10411, 10706..10777, 10710..10778		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o9.tw	Method	TBLASTX:Wheat
Start	9570	End	10778
GI	none	Score	71
Exons	9570..9623, 9572..9622, 9879..9974, 9889..9975, 10061..10150, 10069..10155, 10191..10238, 10192..10242, 10308..10409, 10343..10411, 10706..10777, 10710..10778		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o1.ts	Method	TBLASTX:Soybean
Start	11728	End	12197
GI	5509260	Score	549
Exons	11728..12192, 11742..11894, 11952..12197		
GI Descrip.	-		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o4.tw	Method	TBLASTX:Wheat
Start	11742	End	12189
GI	none	Score	55
Exons	11742..11801, 11743..11802, 11782..12183, 11844..11894, 11981..12184, 12003..12173, 12010..12189		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o1.tc	Method	TBLASTX:Cress
Start	11809	End	12069
GI	none	Score	223
Exons	11809..12069		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o3.tm	Method	TBLASTX:Maize
Start	11859	End	12297
GI	none	Score	489
Exons	11859..11894, 11860..12297, 11887..11943, 11936..12034,		

11952..12236, 12013..12237

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o8.tw	Method	TBLASTX:Wheat
Start	12373	End	12804
GI	none	Score	97
Exons	12373..12522, 12547..12804		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o2.tm	Method	TBLASTX:Maize
Start	12550	End	13206
GI	none	Score	657
Exons	12550..13206, 12558..13175, 12853..13191		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o3.ts	Method	TBLASTX:Soybean
Start	12568	End	13197
GI	none	Score	245
Exons	12568..12957, 12672..12899, 12976..13197, 12990..13160		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o11.tm	Method	TBLASTX:Maize
Start	17393	End	21062
GI	none	Score	40
Exons	17393..17455, 17587..17625, 17710..17805, 17711..17791, 18162..18359, 18172..18360, 18172..18342, 18174..18362, 20710..20829, 20712..20831, 20714..20827, 20716..20829, 20978..21061, 20982..21062		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o14.tm	Method	TBLASTX:Maize
Start	22070	End	26195
GI	none	Score	81
Exons	22070..22129, 22070..22129, 22202..22249, 22203..22259, 22442..22513, 22453..22521, 23178..23279, 23180..23284, 23199..23273, 25051..25095, 25055..25111, 25058..25111, 25250..25330, 25257..25337, 25944..26006, 25945..26004, 26020..26184, 26030..26188, 26079..26186, 26079..26195		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o16.tm	Method	TBLASTX:Maize
Start	28978	End	33574
GI	none	Score	105
Exons	28978..29064, 28978..29055, 28979..29071, 29152..29238, 29165..29236, 30258..30344, 30262..30345, 30263..30343,		

30264..30344, 30265..30345, 31246..31314, 31250..31309,
31384..31452, 31385..31453, 32746..32829, 32747..32836,
32749..32838, 32753..32839, 33302..33349, 33437..33544,
33440..33574, 33442..33573

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o17.tm	Method	TBLASTX:Maize
Start	47992	End	48238
GI	none	Score	45
Exons	47992..48024, 47992..48033, 48026..48208, 48026..48238		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o5.tw	Method	TBLASTX:Wheat
Start	48047	End	48380
GI	none	Score	41
Exons	48047..48379, 48240..48287, 48263..48376, 48306..48380		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o1.tm	Method	TBLASTX:Maize
Start	48242	End	48826
GI	none	Score	162
Exons	48242..48667, 48366..48668, 48663..48818, 48665..48826, 48672..48818, 48674..48820		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o1.tw	Method	TBLASTX:Wheat
Start	48380	End	49006
GI	none	Score	51
Exons	48380..49006, 48381..48449, 48386..48631, 48492..49004		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o5.tm	Method	TBLASTX:Maize
Start	48875	End	49146
GI	none	Score	263
Exons	48875..49141, 48879..49145, 48934..49146		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o5.ts	Method	TBLASTX:Soybean
Start	48965	End	49141
GI	none	Score	145
Exons	48965..49141, 48966..49139		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241

Name	OJ990727_02.9924.C9.o11.tw	Method	TBLASTX:Wheat
Start	49013	End	49287
GI	none	Score	161
Exons	49013..49141, 49014..49148, 49018..49143, 49126..49287, 49130..49285		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o2.tw	Method	TBLASTX:Wheat
Start	49318	End	49744
GI	none	Score	241
Exons	49318..49668, 49318..49743, 49325..49744		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o4.tm	Method	TBLASTX:Maize
Start	49318	End	49671
GI	none	Score	49
Exons	49318..49671, 49325..49357, 49333..49665, 49403..49666		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o9.ts	Method	TBLASTX:Soybean
Start	49489	End	49737
GI	none	Score	208
Exons	49489..49737		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o9.tm	Method	TBLASTX:Maize
Start	49673	End	50010
GI	none	Score	149
Exons	49673..49957, 49678..50010		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o6.tw	Method	TBLASTX:Wheat
Start	49745	End	50019
GI	none	Score	254
Exons	49745..50005, 49747..50007, 49748..50002, 49777..50019		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o2.ts	Method	TBLASTX:Soybean
Start	49759	End	50154
GI	none	Score	174
Exons	49759..50010, 49769..50008, 49816..50013, 49973..50116, 50038..50118, 50065..50118, 50122..50154, 50122..50154		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-

Start	52477	End	53241
Name	OJ990727_02.9924.C9.o6.tm	Method	TBLASTX:Maize
Start	50065	End	50508
GI	none	Score	126
Exons	50065..50508, 50074..50436		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o3.tw	Method	TBLASTX:Wheat
Start	50095	End	50581
GI	none	Score	294
Exons	50095..50577, 50138..50581		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o10.ts	Method	TBLASTX:Soybean
Start	50227	End	50541
GI	none	Score	195
Exons	50227..50541		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o10.tw	Method	TBLASTX:Wheat
Start	50716	End	51063
GI	none	Score	224
Exons	50716..51063		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o7.tw	Method	TBLASTX:Wheat
Start	51418	End	51763
GI	none	Score	36
Exons	51418..51762, 51567..51602, 51632..51763		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o12.tm	Method	TBLASTX:Maize
Start	51463	End	51762
GI	none	Score	47
Exons	51463..51762, 51464..51544, 51632..51739		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o12.tw	Method	TBLASTX:Wheat
Start	51814	End	51996
GI	none	Score	133
Exons	51814..51996, 51815..51994		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241

Name	OJ990727_02.9924.C9.o13.gs	Method	GENSCAN
Start	52477	End	53241
GI	none	Score	.92
Exons	52477..53241		

Seq. No.	14808	Seq. ID	OJ990727_02.9924.C9
Gene No.	31497	Strand	-
Start	52477	End	53241
Name	OJ990727_02.9924.C9.o10.np	Method	AAT/NAP
Start	52480	End	53241
GI	4512229	Score	1209
Exons	52480..53241		
GI Descrip.	(AB014740) ORF0 protein [Oryza sativa]		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31498	Strand	+
Start	504	End	3386
Name	OJ990727_02.9924.C10.o1.gs	Method	GENSCAN
Start	504	End	3386
GI	none	Score	.89
Exons	504..662, 699..828, 917..1097, 1131..1801, 2025..2434, 2495..2826, 3116..3204, 3274..3386		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o1.np	Method	AAT/NAP
Start	4215	End	9118
GI	4206306	Score	2810
Exons	4215..7750, 9054..9118		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o6.tw	Method	TBLASTX:Wheat
Start	4224	End	4792
GI	none	Score	102
Exons	4224..4349, 4514..4645, 4673..4792		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o5.tm	Method	TBLASTX:Maize
Start	4484	End	4747
GI	none	Score	210
Exons	4484..4747		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o2.ts	Method	TBLASTX:Soybean
Start	4763	End	5140
GI	none	Score	47
Exons	4763..5140, 4770..4940, 4998..5111		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10

Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o4.tm	Method	TBLASTX:Maize
Start	4778	End	4952
GI	none	Score	173
Exons	4778..4951, 4779..4952		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o3.tm	Method	TBLASTX:Maize
Start	4952	End	5410
GI	none	Score	39
Exons	4952..5410, 5000..5104, 5091..5345, 5135..5347		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o4.tw	Method	TBLASTX:Wheat
Start	5000	End	5410
GI	none	Score	233
Exons	5000..5410		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o3.tw	Method	TBLASTX:Wheat
Start	5761	End	6168
GI	none	Score	68
Exons	5761..5901, 5762..5902, 5924..6115, 5944..6168		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o1.ts	Method	TBLASTX:Soybean
Start	6293	End	6660
GI	none	Score	65
Exons	6293..6463, 6310..6660, 6500..6643		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o5.tw	Method	TBLASTX:Wheat
Start	6325	End	6534
GI	none	Score	103
Exons	6325..6534, 6335..6529, 6346..6531		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o2.tm	Method	TBLASTX:Maize
Start	6409	End	6795
GI	none	Score	178
Exons	6409..6795, 6425..6754		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-

Start	4215	End	9333
Name	OJ990727_02.9924.C10.o1.tw	Method	TBLASTX:Wheat
Start	6535	End	6954
GI	none	Score	136
Exons	6535..6954, 6536..6751, 6538..6954		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o1.tm	Method	TBLASTX:Maize
Start	6823	End	7180
GI	none	Score	246
Exons	6823..7179, 6824..7180		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o2.tw	Method	TBLASTX:Wheat
Start	6955	End	7309
GI	none	Score	208
Exons	6955..7239, 6956..7237, 7235..7309		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o3.gs	Method	GENSCAN
Start	7281	End	8899
GI	none	Score	.43
Exons	7281..7759, 8060..8125, 8158..8899		

Seq. No.	14809	Seq. ID	OJ990727_02.9924.C10
Gene No.	31499	Strand	-
Start	4215	End	9333
Name	OJ990727_02.9924.C10.o2.np	Method	AAT/NAP
Start	8392	End	9333
GI	6721562	Score	273
Exons	8392..9003, 9277..9333		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	14810	Seq. ID	OJ990727_02.9924.C11
Gene No.	31500	Strand	-
Start	641	End	1087
Name	OJ990727_02.9924.C11.o2.tm	Method	TBLASTX:Maize
Start	297	End	787
GI	none	Score	53
Exons	297..359, 305..418, 431..484, 509..589, 593..787, 596..766, 649..777		

Seq. No.	14810	Seq. ID	OJ990727_02.9924.C11
Gene No.	31500	Strand	-
Start	641	End	1087
Name	OJ990727_02.9924.C11.o1.np	Method	AAT/NAP
Start	641	End	1087

GI	6705984	Score	603
Exons	641..1087		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	14810	Seq. ID	OJ990727_02.9924.C11
Gene No.	31500	Strand	-
Start	641	End	1087
Name	OJ990727_02.9924.C11.o1.tm	Method	TBLASTX:Maize
Start	788	End	1058
GI	none	Score	177
Exons	788..1057, 789..1058		

Seq. No.	14810	Seq. ID	OJ990727_02.9924.C11
Gene No.	31500	Strand	-
Start	641	End	1087
Name	OJ990727_02.9924.C11.o1.tw	Method	TBLASTX:Wheat
Start	827	End	1085
GI	none	Score	215
Exons	827..1084, 837..1085		

Seq. No.	14811	Seq. ID	OJ990727_02.9924.C13
Gene No.	31501	Strand	+
Start	36	End	557
Name	OJ990727_02.9924.C13.o1.gs	Method	GENSCAN
Start	36	End	557
GI	none	Score	.79
Exons	36..557		

Seq. No.	14812	Seq. ID	OJ990727_02.9924.C14
Gene No.	31502	Strand	-
Start	683	End	1301
Name	OJ990727_02.9924.C14.o1.gs	Method	GENSCAN
Start	683	End	1228
GI	none	Score	.98
Exons	683..1228		

Seq. No.	14812	Seq. ID	OJ990727_02.9924.C14
Gene No.	31502	Strand	-
Start	683	End	1301
Name	OJ990727_02.9924.C14.o1.np	Method	AAT/NAP
Start	704	End	1301
GI	4680203	Score	565
Exons	704..1301		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	14812	Seq. ID	OJ990727_02.9924.C14
Gene No.	31502	Strand	-
Start	683	End	1301
Name	OJ990727_02.9924.C14.o1.tw	Method	TBLASTX:Wheat
Start	758	End	1301
GI	none	Score	52
Exons	758..850, 759..824, 839..919, 867..920, 915..1073, 926..1072, 1020..1115, 1052..1111, 1117..1182, 1118..1162, 1157..1300, 1173..1301		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-

Start	1	End	5165
Name	OJ990727_02.9924.C15.o1.gp	Method	AAT/GAP
Start	1	End	2587
GI	342_1.R1084	Score	4270
Exons	1..2587		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o1.np	Method	AAT/NAP
Start	1	End	2591
GI	4680203	Score	2553
Exons	1..259, 536..766, 920..2591		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o1.tc	Method	TBLASTX:Cress
Start	2	End	365
GI	none	Score	284
Exons	2..361, 3..365, 30..365		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o1.tw	Method	TBLASTX:Wheat
Start	2	End	652
GI	none	Score	514
Exons	2..652, 3..605, 473..652		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o1.gs	Method	GENSCAN
Start	173	End	5126
GI	none	Score	.73
Exons	173..304, 440..855, 1209..1644, 1779..2591, 3861..3985, 4841..5126		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o3.tm	Method	TBLASTX:Maize
Start	296	End	610
GI	none	Score	145
Exons	296..610, 315..599		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o3.tw	Method	TBLASTX:Wheat
Start	653	End	1064
GI	none	Score	75
Exons	653..739, 654..740, 654..743, 665..745, 773..1015, 813..995,		

963..1064, 1001..1063

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o3.ts	Method	TBLASTX:Soybean
Start	1096	End	1338
GI	none	Score	198
Exons	1096..1338		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o2.tm	Method	TBLASTX:Maize
Start	1168	End	1626
GI	none	Score	89
Exons	1168..1362, 1372..1614, 1373..1624, 1477..1626		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o2.tw	Method	TBLASTX:Wheat
Start	1202	End	1671
GI	none	Score	163
Exons	1202..1408, 1202..1411, 1204..1410, 1204..1431, 1409..1501, 1411..1509, 1412..1504, 1513..1617, 1517..1618, 1615..1671, 1619..1663		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o2.gp	Method	AAT/GAP
Start	1458	End	3079
GI	2310235	Score	290
Exons	1458..1479, 2452..2591, 3042..3079		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o2.tc	Method	TBLASTX:Cress
Start	1459	End	1806
GI	none	Score	87
Exons	1459..1689, 1478..1606, 1655..1693, 1698..1799, 1699..1806		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o2.ts	Method	TBLASTX:Soybean
Start	1546	End	1968
GI	none	Score	60
Exons	1546..1680, 1553..1681, 1558..1683, 1674..1835, 1693..1803, 1830..1892, 1885..1968, 1893..1967		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-

Start	1	End	5165
Name	OJ990727_02.9924.C15.o4.tw	Method	TBLASTX:Wheat
Start	1884	End	2285
GI	none	Score	168
Exons	1884..2141, 1889..2131, 1897..2139, 1899..2150, 1900..2142, 2133..2285, 2147..2254		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o2.np	Method	AAT/NAP
Start	4394	End	5165
GI	6522541	Score	360
Exons	4394..4746, 4841..5165		
GI Descrip.	(AL132955) receptor-kinase like protein [Arabidopsis thaliana]		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o1.tm	Method	TBLASTX:Maize
Start	4451	End	4970
GI	none	Score	63
Exons	4451..4552, 4452..4565, 4535..4747, 4542..4760, 4842..4970, 4842..4967		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o1.ts	Method	TBLASTX:Soybean
Start	4562	End	5159
GI	none	Score	74
Exons	4562..4789, 4614..4757, 4872..5084, 4906..4995, 4923..5084, 5106..5159		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o3.tc	Method	TBLASTX:Cress
Start	4632	End	5159
GI	none	Score	64
Exons	4632..4760, 4658..4747, 4842..5159		

Seq. No.	14813	Seq. ID	OJ990727_02.9924.C15
Gene No.	31503	Strand	-
Start	1	End	5165
Name	OJ990727_02.9924.C15.o5.tw	Method	TBLASTX:Wheat
Start	4658	End	5141
GI	none	Score	149
Exons	4658..4747, 4839..5141		

Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31504	Strand	+
Start	6946	End	8622
Name	OJ990727_02.9924.C16.o2.gs	Method	GENSCAN
Start	6946	End	8622
GI	none	Score	.65
Exons	6946..6952, 7762..8053, 8061..8262, 8443..8622		

Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31505	Strand	+
Start	11825	End	14657
Name	OJ990727_02.9924.C16.o2.np	Method	AAT/NAP
Start	11825	End	14657
GI	6705984	Score	911
Exons	11825..12014, 13182..14657		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31506	Strand	-
Start	1	End	5972
Name	OJ990727_02.9924.C16.o1.np	Method	AAT/NAP
Start	1	End	5936
GI	1184077	Score	1222
Exons	1..40, 1948..2740, 2819..3642, 4244..4542, 4696..5039, 5193..5936		
GI Descrip.	(U42445) Cf-2.2 [Lycopersicon pimpinellifolium]		

Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31506	Strand	-
Start	1	End	5972
Name	OJ990727_02.9924.C16.o1.gs	Method	GENSCAN
Start	26	End	5972
GI	none	Score	.43
Exons	26..169, 174..451, 531..816, 880..1049, 1182..1315, 1470..1866, 2679..3584, 4062..4182, 4298..4429, 4514..4882, 5165..5972		

Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31506	Strand	-
Start	1	End	5972
Name	OJ990727_02.9924.C16.o2.tm	Method	TBLASTX:Maize
Start	1504	End	1757
GI	none	Score	221
Exons	1504..1755, 1506..1757		

Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31506	Strand	-
Start	1	End	5972
Name	OJ990727_02.9924.C16.o3.ts	Method	TBLASTX:Soybean
Start	1506	End	1742
GI	none	Score	135
Exons	1506..1742, 1507..1737		

Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31506	Strand	-
Start	1	End	5972
Name	OJ990727_02.9924.C16.o1.tc	Method	TBLASTX:Cress
Start	1941	End	5693
GI	none	Score	104
Exons	1941..2312, 2006..2350, 2009..2683, 2009..2563, 2010..2324, 2012..2140, 2063..2197, 2069..2137, 2069..2602, 2105..2284, 2138..2608, 2139..2378, 2162..2305, 2282..2683, 2321..2503, 2351..2605, 2363..2716, 2364..2528, 2370..2552, 2373..2540, 2384..2572, 2418..2546, 2426..2707, 2427..2684, 2456..2605, 2498..2713, 2567..2683, 2586..2678, 2705..2803, 2780..3106,		

2816..3124, 2816..3220, 2816..3127, 2885..3121, 2885..3124,
2942..3292, 2963..3124, 3020..3304, 3170..3337, 3173..3253,
3176..3292, 3224..3301, 3338..3493, 3338..3517, 3338..3514,
3344..3514, 3344..3442, 3344..3451, 3365..3490, 3374..3532,
3377..3514, 3393..3593, 3407..3532, 3518..3664, 3527..3667,
3533..3682, 3533..3667, 3533..3649, 3533..3637, 3533..3622,
4230..4490, 4230..4364, 4230..4559, 4239..4526, 4240..4383,
4242..4526, 4243..4392, 4257..4511, 4260..4526, 4261..4389,
4269..4550, 4341..4556, 4410..4526, 4422..4529, 4441..4521,
4554..4601, 4623..4952, 4659..5156, 4659..5135, 4659..5162,
4719..5150, 4785..5135, 4785..4850, 4800..5096, 4806..4967,
4851..5126, 4854..5147, 5067..5144, 5190..5375, 5190..5360,
5190..5369, 5211..5375, 5355..5687, 5379..5687, 5379..5663,
5379..5468, 5439..5693, 5442..5687, 5446..5637, 5472..5663

Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31506	Strand	-
Start	1	End	5972
Name	OJ990727_02.9924.C16.o1.ts	Method	TBLASTX:Soybean
Start	1949	End	5706
GI	none	Score	66

Exons 1949..2473, 1950..2045, 2012..2323, 2013..2240, 2069..2677,
2075..2539, 2081..2491, 2150..2707, 2156..2563, 2225..2608,
2289..2486, 2372..2686, 2427..2627, 2816..3127, 2816..3124,
2816..3082, 2822..3274, 2876..3256, 2885..3304, 2885..3127,
2957..3304, 3173..3346, 3317..3646, 3338..3526, 3344..3490,
3344..3490, 3392..3514, 3393..3491, 3527..3640, 3533..3661,
3536..3637, 3542..3673, 3542..3637, 4230..4364, 4230..4334,
4234..4383, 4239..4526, 4239..4502, 4242..4550, 4245..4601,
4245..4364, 4281..4526, 4422..4529, 4659..5147, 4659..4847,
4659..4970, 4665..5117, 4701..5135, 4728..5147, 4728..4751,
4800..5147, 4800..5138, 4824..4949, 4869..5144, 5089..5154,
5148..5360, 5190..5687, 5190..5372, 5190..5351, 5190..5336,
5214..5360, 5221..5346, 5379..5693, 5379..5486, 5379..5693,
5379..5687, 5379..5555, 5380..5706, 5382..5693, 5385..5687,
5388..5657, 5424..5537, 5452..5688, 5484..5609

Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31506	Strand	-
Start	1	End	5972
Name	OJ990727_02.9924.C16.o1.tm	Method	TBLASTX:Maize
Start	2012	End	5693
GI	none	Score	97

Exons 2012..2173, 2417..2509, 2447..2608, 2699..3121, 2709..2990,
2960..3127, 3024..3119, 3032..3256, 3102..3260, 3200..3304,
3368..3442, 3404..3526, 3527..3649, 3545..3649, 3755..3787,
4230..4520, 4290..4520, 4422..4502, 4542..4973, 4552..4833,
4731..5027, 4803..5102, 4917..5147, 5016..5081, 5043..5147,
5166..5297, 5190..5381, 5214..5309, 5214..5360, 5329..5670,
5334..5621, 5391..5693, 5518..5688

Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31506	Strand	-
Start	1	End	5972
Name	OJ990727_02.9924.C16.o3.tw	Method	TBLASTX:Wheat
Start	2330	End	5861
GI	none	Score	61

Exons	2330..2503, 3353..3487, 4401..4520, 4767..4919, 4830..4964, 5199..5333, 5433..5552, 5506..5616, 5559..5693, 5563..5688, 5742..5861		
Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31507	Strand	
Start	10916	End	11405
Name	OJ990727_02.9924.C16.o5.tm	Method	TBLASTX:Maize
Start	10916	End	11405
GI	none	Score	125
Exons	10916..11143, 10919..11143, 11140..11283, 11202..11303, 11202..11240, 11203..11247, 11308..11403, 11308..11391, 11309..11404, 11310..11405		
Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31508	Strand	
Start	13240	End	13843
Name	OJ990727_02.9924.C16.o4.tm	Method	TBLASTX:Maize
Start	13240	End	13442
GI	none	Score	73
Exons	13240..13380, 13263..13442, 13277..13441		
Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31508	Strand	
Start	13240	End	13843
Name	OJ990727_02.9924.C16.o2.tw	Method	TBLASTX:Wheat
Start	13277	End	13843
GI	none	Score	130
Exons	13277..13684, 13278..13442, 13467..13691, 13751..13843		
Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31508	Strand	
Start	13240	End	13843
Name	OJ990727_02.9924.C16.o2.ts	Method	TBLASTX:Soybean
Start	13308	End	13691
GI	none	Score	106
Exons	13308..13484, 13476..13691		
Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31509	Strand	
Start	14182	End	14655
Name	OJ990727_02.9924.C16.o1.tw	Method	TBLASTX:Wheat
Start	14182	End	14640
GI	none	Score	112
Exons	14182..14328, 14205..14324, 14324..14458, 14326..14445, 14466..14510, 14466..14510, 14467..14529, 14468..14533, 14520..14621, 14538..14633, 14539..14640, 14539..14640		
Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16
Gene No.	31509	Strand	
Start	14182	End	14655
Name	OJ990727_02.9924.C16.o3.tm	Method	TBLASTX:Maize
Start	14423	End	14655
GI	none	Score	137
Exons	14423..14533, 14521..14655		
Seq. No.	14814	Seq. ID	OJ990727_02.9924.C16

Gene No.	31509	Strand	
Start	14182	End	14655
Name	OJ990727_02.9924.C16.o4.ts	Method	TBLASTX:Soybean
Start	14423	End	14655
GI	none	Score	137
Exons	14423..14533, 14521..14655		

Seq. No.	14815	Seq. ID	OJ990617_05.9924.C1
Gene No.	31510	Strand	-
Start	56	End	149
Name	OJ990617_05.9924.C1.o1.tm	Method	TBLASTX:Maize
Start	1	End	149
GI	none	Score	188
Exons	1..138, 1..138, 3..149, 3..143, 5..145		

Seq. No.	14815	Seq. ID	OJ990617_05.9924.C1
Gene No.	31510	Strand	-
Start	56	End	149
Name	OJ990617_05.9924.C1.o1.gp	Method	AAT/GAP
Start	56	End	144
GI	LIB3434-026-P1-K1-G9	Score	137
Exons	56..144		
GI Descrip.	'1652280/dbj|BAA17203| 3.0e-14 (D90904) ribonuclease II [Synechocystis sp.]'		

Seq. No.	14816	Seq. ID	OJ990617_05.9924.C3
Gene No.	31511	Strand	-
Start	1	End	833
Name	OJ990617_05.9924.C3.o1.np	Method	AAT/NAP
Start	1	End	833
GI	4206306	Score	221
Exons	1..437, 807..833		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	14816	Seq. ID	OJ990617_05.9924.C3
Gene No.	31511	Strand	-
Start	1	End	833
Name	OJ990617_05.9924.C3.o1.tw	Method	TBLASTX:Wheat
Start	11	End	372
GI	none	Score	74
Exons	11..88, 85..372, 86..322		

Seq. No.	14817	Seq. ID	OJ990617_05.9924.C4
Gene No.	31512	Strand	-
Start	1	End	432
Name	OJ990617_05.9924.C4.o1.np	Method	AAT/NAP
Start	1	End	432
GI	1352200	Score	49
Exons	1..165, 403..432		
GI Descrip.	TRIOSE PHOSPHATE/PHOSPHATE TRANSLOCATOR, CHLOROPLAST PRECURSOR (CTPT) gi|480909|pir||S37497 triose phosphate/3-phosphoglycerate/phosphate translocator - maize gi|405635|emb|CAA81349| (Z26595) triose phosphate/phosphate translocator [Zea mays]		

Seq. No.	14818	Seq. ID	OJ990617_05.9924.C5
Gene No.	31513	Strand	-

Start	11	End	156
Name	OJ990617_05.9924.C5.o1.gs	Method	GENSCAN
Start	11	End	156
GI	none	Score	.74
Exons	11..156		

Seq. No.	14819	Seq. ID	OJ990617_05.9924.C8
Gene No.	31514	Strand	+
Start	909	End	4147
Name	OJ990617_05.9924.C8.o1.gs	Method	GENSCAN
Start	909	End	4147
GI	none	Score	.69
Exons	909..1076, 1473..1547, 2817..2914, 3955..4147		

Seq. No.	14819	Seq. ID	OJ990617_05.9924.C8
Gene No.	31515	Strand	-
Start	6708	End	8521
Name	OJ990617_05.9924.C8.o2.gs	Method	GENSCAN
Start	6708	End	8477
GI	none	Score	.59
Exons	6708..7165, 8204..8477		

Seq. No.	14819	Seq. ID	OJ990617_05.9924.C8
Gene No.	31515	Strand	-
Start	6708	End	8521
Name	OJ990617_05.9924.C8.o1.np	Method	AAT/NAP
Start	6926	End	8521
GI	3785979	Score	176
Exons	6926..6943, 8372..8521		
GI Descrip.	(AC005560) putative homeodomain transcription factor [Arabidopsis thaliana]		

Seq. No.	14819	Seq. ID	OJ990617_05.9924.C8
Gene No.	31515	Strand	-
Start	6708	End	8521
Name	OJ990617_05.9924.C8.o1.tm	Method	TBLASTX:Maize
Start	8293	End	8520
GI	none	Score	313
Exons	8293..8520, 8346..8519		

Seq. No.	14820	Seq. ID	OJ990617_05.9924.C9
Gene No.	31516	Strand	+
Start	42	End	3182
Name	OJ990617_05.9924.C9.o1.gs	Method	GENSCAN
Start	42	End	3182
GI	none	Score	.49
Exons	42..161, 255..403, 492..531, 2874..3063, 3088..3182		

Seq. No.	14820	Seq. ID	OJ990617_05.9924.C9
Gene No.	31516	Strand	+
Start	42	End	3182
Name	OJ990617_05.9924.C9.o1.np	Method	AAT/NAP
Start	477	End	1902
GI	5852084	Score	80
Exons	477..520, 1816..1902		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	14820	Seq. ID	OJ990617_05.9924.C9
Gene No.	31517	Strand	+
Start	4272	End	5360
Name	OJ990617_05.9924.C9.o2.np	Method	AAT/NAP
Start	4272	End	5360
GI	6815053	Score	667
Exons	4272..4418, 4919..5074, 5124..5360		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	14820	Seq. ID	OJ990617_05.9924.C9
Gene No.	31518	Strand	-
Start	3876	End	7160
Name	OJ990617_05.9924.C9.o2.gs	Method	GENSCAN
Start	3876	End	7160
GI	none	Score	.46
Exons	3876..3903, 4513..4578, 4959..5071, 6195..6228, 7060..7160		

Seq. No.	14821	Seq. ID	OJ990617_05.9924.C10
Gene No.	31519	Strand	+
Start	5	End	2041
Name	OJ990617_05.9924.C10.o1.gs	Method	GENSCAN
Start	5	End	2041
GI	none	Score	.46
Exons	5..575, 629..758, 842..1014, 1275..2041		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31520	Strand	+
Start	1	End	12889
Name	OJ990617_05.9924.C11.o1.np	Method	AAT/NAP
Start	1	End	12889
GI	4263831	Score	967
Exons	1..1108, 1317..1678, 1853..2248, 2375..2969, 12854..12889		
GI Descrip.	(AC006067) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31520	Strand	+
Start	1	End	12889
Name	OJ990617_05.9924.C11.o1.gs	Method	GENSCAN
Start	45	End	461
GI	none	Score	.56
Exons	45..461		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31521	Strand	+
Start	17438	End	28839
Name	OJ990617_05.9924.C11.o5.gs	Method	GENSCAN
Start	17438	End	28839
GI	none	Score	.44
Exons	17438..17532, 17649..17969, 18129..18378, 18396..18811, 18817..19180, 19266..19432, 20592..20696, 21602..21860, 22423..22863, 23043..23404, 23419..23696, 24844..24899, 25337..25534, 28633..28839		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31521	Strand	+
Start	17438	End	28839

Name	OJ990617_05.9924.C11.o3.np	Method	AAT/NAP
Start	18674	End	27000
GI	6721512	Score	104
Exons	18674..19184, 19617..19861, 20609..20696, 20739..20778, 26829..27000		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31521	Strand	+
Start	17438	End	28839
Name	OJ990617_05.9924.C11.o3.gp	Method	AAT/GAP
Start	22263	End	22584
GI	3061127	Score	631
Exons	22263..22584		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31521	Strand	+
Start	17438	End	28839
Name	OJ990617_05.9924.C11.o4.np	Method	AAT/NAP
Start	22481	End	23482
GI	6523057	Score	436
Exons	22481..22626, 22741..22863, 22982..23143, 23246..23482		
GI Descrip.	(AL133314) putative protein [Arabidopsis thaliana]		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31521	Strand	+
Start	17438	End	28839
Name	OJ990617_05.9924.C11.o4.gp	Method	AAT/GAP
Start	22708	End	24166
GI	19190_1.R1084	Score	2814
Exons	22708..24166		
GI Descrip.	'5922603/dbj|AP000492.1|AP000492 3.0e-11 Oryza sativa genomic DNA, chromosome 1, clone:P0705D01'		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31521	Strand	+
Start	17438	End	28839
Name	OJ990617_05.9924.C11.o5.np	Method	AAT/NAP
Start	25259	End	26898
GI	6539588	Score	114
Exons	25259..25547, 26844..26898		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31522	Strand	+
Start	30756	End	31106
Name	OJ990617_05.9924.C11.o6.gp	Method	AAT/GAP
Start	30756	End	31106
GI	2442807	Score	415
Exons	30756..30785, 30894..31106		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31523	Strand	+
Start	31317	End	31464
Name	OJ990617_05.9924.C11.o7.gp	Method	AAT/GAP
Start	31317	End	31464
GI	LIB3479-011-Q6-K1-B9	Score	217

Exons	31317..31464		
GI Descrip.	'130951/sp|P17048|PRO2_ORYSA 2.0e-12 13 KD PROLAMIN PRECURSOR >gi_100697_pir__S09249 13K prolamin precursor - rice >gi_20292_emb_CAA32565_ (X14392) preprolamin (AA -19 to 137) [Oryza sativa] >gi_1587669_prf__2207199A prolamin [Oryza sativa]'		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31524	Strand	-
Start	3375	End	7673
Name	OJ990617_05.9924.C11.o3.gs	Method	GENSCAN
Start	3375	End	7673
GI	none	Score	.76
Exons	3375..3670, 3750..4059, 4139..4222, 4538..4879, 4960..6249, 6529..6673, 6996..7086, 7514..7673		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31525	Strand	-
Start	10568	End	17020
Name	OJ990617_05.9924.C11.o1.gp	Method	AAT/GAP
Start	10501	End	12966
GI	2311261	Score	743
Exons	10501..10591, 11401..11606, 12659..12786, 12920..12966		
GI Descrip.	3236242 8.0e-15 (AC004684) putative ribosomal protein L36 [Arabidopsis thaliana]		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31525	Strand	-
Start	10568	End	17020
Name	OJ990617_05.9924.C11.o4.gs	Method	GENSCAN
Start	10568	End	17020
GI	none	Score	.82
Exons	10568..10598, 11407..11606, 12658..12786, 12920..12976, 14365..14475, 16040..16261, 16599..16739, 16862..17020		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31525	Strand	-
Start	10568	End	17020
Name	OJ990617_05.9924.C11.o2.np	Method	AAT/NAP
Start	11370	End	12759
GI	3236242	Score	369
Exons	11370..11606, 12658..12759		
GI Descrip.	(AC004684) 60S ribosomal protein L36 [Arabidopsis thaliana]		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31525	Strand	-
Start	10568	End	17020
Name	OJ990617_05.9924.C11.o2.gp	Method	AAT/GAP
Start	16279	End	16582
GI	none	Score	550
Exons	16279..16582		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31526	Strand	-
Start	30228	End	31511
Name	OJ990617_05.9924.C11.o6.gs	Method	GENSCAN
Start	30228	End	31511

GI	none	Score	.87
Exons	30228..31511		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o1.tw	Method	TBLASTX:Wheat
Start	96	End	500
GI	none	Score	81
Exons	96..152, 101..142, 147..500,	155..457,	156..500

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o6.tm	Method	TBLASTX:Maize
Start	150	End	368
GI	none	Score	286
Exons	150..368, 155..367		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o1.tm	Method	TBLASTX:Maize
Start	369	End	830
GI	none	Score	535
Exons	369..830, 369..650, 371..829		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o3.ts	Method	TBLASTX:Soybean
Start	516	End	986
GI	none	Score	228
Exons	516..797, 554..691, 798..986,	842..973	

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o3.tw	Method	TBLASTX:Wheat
Start	518	End	899
GI	none	Score	211
Exons	518..832, 519..836, 816..899,	827..895	

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o8.tm	Method	TBLASTX:Maize
Start	2009	End	2389
GI	none	Score	86
Exons	2009..2167, 2165..2389		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o7.ts	Method	TBLASTX:Soybean
Start	2012	End	2410
GI	none	Score	240

Exons	2012..2410, 2116..2232		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o4.tw	Method	TBLASTX:Wheat
Start	2167	End	2581
GI	none	Score	174
Exons	2167..2250, 2168..2437, 2492..2581		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o9.ts	Method	TBLASTX:Soybean
Start	2753	End	3002
GI	none	Score	171
Exons	2753..2905, 2753..2887, 2767..2895, 2896..2997, 2964..3002		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o4.ts	Method	TBLASTX:Soybean
Start	11403	End	12763
GI	none	Score	121
Exons	11403..11606, 11406..11606, 11407..11607, 12653..12763, 12658..12759		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o4.tm	Method	TBLASTX:Maize
Start	11404	End	12763
GI	none	Score	146
Exons	11404..11598, 11406..11597, 11406..11606, 11407..11607, 12658..12759, 12659..12763		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o2.tw	Method	TBLASTX:Wheat
Start	11406	End	12817
GI	none	Score	180
Exons	11406..11606, 11406..11606, 11407..11607, 11459..11608, 12658..12798, 12659..12817		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o3.tc	Method	TBLASTX:Cress
Start	11406	End	12759
GI	none	Score	109
Exons	11406..11573, 11406..11606, 11407..11607, 12653..12751, 12658..12759		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987

Name	OJ990617_05.9924.C11.o4.tc	Method	TBLASTX:Cress
Start	22532	End	23066
GI	none	Score	101
Exons	22532..22627, 22741..22878, 22742..22864, 22980..23066		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o5.tm	Method	TBLASTX:Maize
Start	22534	End	23138
GI	none	Score	145
Exons	22534..22626, 22535..22627, 22741..22884, 22742..22864, 22744..22878, 23010..23138, 23051..23137, 23061..23138		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o6.ts	Method	TBLASTX:Soybean
Start	22535	End	23381
GI	none	Score	104
Exons	22535..22627, 22537..22626, 22741..22833, 22742..22831, 22980..23144, 23057..23158, 23220..23381		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o5.ts	Method	TBLASTX:Soybean
Start	30547	End	30795
GI	none	Score	203
Exons	30547..30738, 30549..30740, 30742..30795, 30756..30794		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o2.tm	Method	TBLASTX:Maize
Start	30550	End	30912
GI	none	Score	315
Exons	30550..30912, 30552..30911		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o7.tm	Method	TBLASTX:Maize
Start	31117	End	31394
GI	none	Score	81
Exons	31117..31161, 31119..31169, 31161..31229, 31200..31235, 31272..31385, 31276..31350, 31353..31394		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o7.gs	Method	GENSCAN
Start	31758	End	37914
GI	none	Score	.63
Exons	31758..31856, 32191..32273, 32481..32541, 32572..32650, 33094..33188, 33804..33848, 34080..34247, 34390..34594, 34727..34924, 35265..35353, 37774..37914		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o6.np	Method	AAT/NAP
Start	33239	End	37987
GI	3785977	Score	1813
Exons	33239..33404, 33540..33730, 33804..33971, 34080..34247, 34390..34594, 34727..34924, 35265..35353, 35476..35543, 36422..36487, 37770..37987		
GI Descrip.	(AC005560) similar to axi 1 protein from Nicotiana tabacum [Arabidopsis thaliana]		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o2.ts	Method	TBLASTX:Soybean
Start	33257	End	33840
GI	none	Score	138
Exons	33257..33400, 33258..33401, 33545..33733, 33549..33731, 33581..33733, 33792..33839, 33805..33840		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o5.tc	Method	TBLASTX:Cress
Start	33263	End	33404
GI	none	Score	80
Exons	33263..33403, 33276..33404		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o2.tc	Method	TBLASTX:Cress
Start	33539	End	33747
GI	none	Score	199
Exons	33539..33733, 33540..33731, 33541..33732, 33541..33747		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o3.tm	Method	TBLASTX:Maize
Start	33671	End	34160
GI	none	Score	76
Exons	33671..33733, 33672..33731, 33673..33747, 33747..33971, 33805..33972, 33805..33972, 33806..33973, 34077..34154, 34077..34160, 34078..34155		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o1.tc	Method	TBLASTX:Cress
Start	33800	End	34617
GI	none	Score	186
Exons	33800..33976, 33801..33977, 33802..33987, 33802..33990, 34061..34285, 34075..34155, 34077..34286, 34077..34286, 34160..34288, 34375..34617, 34376..34597, 34389..34607		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o1.ts	Method	TBLASTX:Soybean
Start	33880	End	34531
GI	none	Score	86
Exons	33880..33972, 33882..33971, 34077..34250, 34078..34155, 34091..34261, 34092..34274, 34371..34454, 34385..34531, 34390..34527		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o8.gp	Method	AAT/GAP
Start	33939	End	34778
GI	uC-osf1M202050g05b1	Score	841
Exons	33939..33971, 34080..34247, 34390..34594, 34727..34778		
GI Descrip.	'3785977 2.0e-58 (AC005560) putative growth regulator protein [Arabidopsis thaliana]'		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o9.tm	Method	TBLASTX:Maize
Start	34796	End	35538
GI	none	Score	101
Exons	34796..34924, 34797..34901, 34798..34926, 34798..34926, 34832..34927, 35265..35354, 35266..35355, 35270..35353, 35473..35538, 35476..35538		

Seq. No.	14822	Seq. ID	OJ990617_05.9924.C11
Gene No.	31527	Strand	-
Start	31758	End	37987
Name	OJ990617_05.9924.C11.o8.ts	Method	TBLASTX:Soybean
Start	34870	End	37986
GI	none	Score	96
Exons	34870..34926, 35265..35351, 35266..35352, 35270..35353, 35474..35548, 35476..35544, 35477..35554, 36414..36491, 37780..37977, 37829..37966, 37882..37986		

Seq. No.	14823	Seq. ID	OJ990617_05.9924.C12
Gene No.	31528	Strand	+
Start	4752	End	7435
Name	OJ990617_05.9924.C12.o1.np	Method	AAT/NAP
Start	4752	End	7435
GI	4539460	Score	500
Exons	4752..4778, 6358..7435		
GI Descrip.	(AL049500) putative protein [Arabidopsis thaliana]		

Seq. No.	14823	Seq. ID	OJ990617_05.9924.C12
Gene No.	31528	Strand	+
Start	4752	End	7435
Name	OJ990617_05.9924.C12.o2.gs	Method	GENSCAN
Start	6216	End	6862
GI	none	Score	.68
Exons	6216..6275, 6299..6580, 6680..6862		

Seq. No.	14823	Seq. ID	OJ990617_05.9924.C12
Gene No.	31529	Strand	+
Start	9350	End	10667
Name	OJ990617_05.9924.C12.o3.gs	Method	GENSCAN
Start	9350	End	10667
GI	none	Score	.73
Exons	9350..9397, 9630..9786, 10552..10667		

Seq. No.	14823	Seq. ID	OJ990617_05.9924.C12
Gene No.	31530	Strand	+
Start	11839	End	12222
Name	OJ990617_05.9924.C12.o1.gp	Method	AAT/GAP
Start	11839	End	12222
GI	uC-osf1M202020f02b1	Score	720
Exons	11839..12222		
GI Descrip.	'3236242 8.0e-15 (AC004684) putative ribosomal protein L36 [Arabidopsis thaliana]'		

Seq. No.	14823	Seq. ID	OJ990617_05.9924.C12
Gene No.	31531	Strand	+
Start	12272	End	14404
Name	OJ990617_05.9924.C12.o2.np	Method	AAT/NAP
Start	12272	End	14404
GI	6708472	Score	118
Exons	12272..12442, 13562..13621, 13976..14033, 14364..14404		
GI Descrip.	(AF214117) putative c-myb-like transcription factor [Arabidopsis thaliana]		

Seq. No.	14823	Seq. ID	OJ990617_05.9924.C12
Gene No.	31532	Strand	-
Start	2351	End	4751
Name	OJ990617_05.9924.C12.o1.gs	Method	GENSCAN
Start	2351	End	4751
GI	none	Score	.91
Exons	2351..2514, 4688..4751		

Seq. No.	14823	Seq. ID	OJ990617_05.9924.C12
Gene No.	31533	Strand	-
Start	12286	End	14373
Name	OJ990617_05.9924.C12.o1.tc	Method	TBLASTX:Cress
Start	6356	End	7389
GI	none	Score	103
Exons	6356..6529, 6359..6505, 6410..6517, 6899..6976, 7023..7268, 7027..7299, 7057..7299, 7306..7389		

Seq. No.	14823	Seq. ID	OJ990617_05.9924.C12
Gene No.	31533	Strand	-
Start	12286	End	14373
Name	OJ990617_05.9924.C12.o1.tm	Method	TBLASTX:Maize
Start	6392	End	7236
GI	none	Score	67
Exons	6392..6505, 7035..7103, 7036..7110, 7036..7110, 7101..7235, 7120..7236		

Seq. No.	14823	Seq. ID	OJ990617_05.9924.C12
Gene No.	31533	Strand	-

Start	12286	End	14373
Name	OJ990617_05.9924.C12.o4.gs	Method	GENSCAN
Start	12286	End	14373
GI	none	Score	.55
Exons	12286..12381, 14314..14373		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31534	Strand	+
Start	442	End	6841
Name	OJ990617_05.9924.C14.o1.gp	Method	AAT/GAP
Start	442	End	1146
GI	uC-osflcyp037e12b1	Score	706
Exons	442..609, 893..1146		
GI Descrip.	'2129953/pir||JC5229 3.0e-39 laccase (EC 1.10.3.2) - common tobacco >gi_1685087 (U43542) diphenol oxidase [Nicotiana tabacum]'		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31534	Strand	+
Start	442	End	6841
Name	OJ990617_05.9924.C14.o1.gs	Method	GENSCAN
Start	481	End	2048
GI	none	Score	.92
Exons	481..609, 893..2048		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31534	Strand	+
Start	442	End	6841
Name	OJ990617_05.9924.C14.o1.np	Method	AAT/NAP
Start	481	End	3781
GI	6478940	Score	233
Exons	481..609, 893..974, 3675..3781		
GI Descrip.	(AC011436) putative MYB family transcription factor [Arabidopsis thaliana]		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31534	Strand	+
Start	442	End	6841
Name	OJ990617_05.9924.C14.o2.gp	Method	AAT/GAP
Start	1689	End	1928
GI	2797152	Score	459
Exons	1689..1928		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31534	Strand	+
Start	442	End	6841
Name	OJ990617_05.9924.C14.o2.gs	Method	GENSCAN
Start	3249	End	6549
GI	none	Score	.83
Exons	3249..3263, 3454..3589, 3727..3832, 3850..3916, 3952..4027, 4139..4262, 4669..4753, 5070..5202, 5706..5800, 5976..6054, 6199..6281, 6499..6549		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31534	Strand	+
Start	442	End	6841
Name	OJ990617_05.9924.C14.o4.gp	Method	AAT/GAP

Start	3664	End	6841
GI	22230_1.R1084	Score	2174
Exons	3664..3832, 3952..4027, 4139..4262, 4669..4753, 5070..5202, 5706..5800, 5976..6054, 6199..6281, 6499..6841		
GI Descrip.	'1351270/sp|P48494|TPIS_ORYSA 1.0e-105 TRIOSEPHOSPHATE ISOMERASE, CYTOSOLIC (TIM) >gi_478410_pir__JQ2255 triose-phosphate isomerase (EC 5.3.1.1) - rice >gi_169821 (M87064) triosephosphate isomerase [Oryza sativa]'		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31534	Strand	+
Start	442	End	6841
Name	OJ990617_05.9924.C14.o2.np	Method	AAT/NAP
Start	3794	End	6546
GI	1351279	Score	852
Exons	3794..3832, 3952..4027, 4139..4262, 4669..4753, 5070..5202, 5706..5800, 5976..6054, 6199..6281, 6499..6546		
GI Descrip.	TRIOSEPHOSPHATE ISOMERASE, CYTOSOLIC (TIM) gi|602590|emb|CAA58230| (X83227) triosephosphate isomerase [Petunia x hybrida]		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31535	Strand	-
Start	2413	End	2694
Name	OJ990617_05.9924.C14.o3.gp	Method	AAT/GAP
Start	2413	End	2694
GI	none	Score	451
Exons	2413..2694		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31536	Strand	-
Start	7358	End	7546
Name	OJ990617_05.9924.C14.o2.tc	Method	TBLASTX:Cress
Start	463	End	962
GI	none	Score	191
Exons	463..609, 479..610, 514..615, 516..611, 890..946, 891..962		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31536	Strand	-
Start	7358	End	7546
Name	OJ990617_05.9924.C14.o2.ts	Method	TBLASTX:Soybean
Start	479	End	1883
GI	none	Score	73
Exons	479..571, 479..610, 481..609, 513..641, 575..610, 879..953, 890..946, 1371..1439, 1469..1627, 1476..1667, 1791..1883		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31536	Strand	-
Start	7358	End	7546
Name	OJ990617_05.9924.C14.o2.tm	Method	TBLASTX:Maize
Start	1635	End	2077
GI	none	Score	102
Exons	1635..1766, 1636..1704, 1637..1768, 1752..1937, 1754..1954, 1755..1796, 1784..1948, 2010..2069, 2010..2066, 2021..2077		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31536	Strand	-

Start	7358	End	7546
Name	OJ990617_05.9924.C14.o1.tm	Method	TBLASTX:Maize
Start	3791	End	6546
GI	none	Score	79
Exons	3791..3832, 3791..3841, 3952..4047, 3954..4001, 3964..4026, 4137..4262, 4138..4260, 4666..4752, 4666..4752, 4667..4753, 4668..4781, 5016..5198, 5070..5201, 5072..5200, 5673..5756, 5702..5803, 5704..5802, 5967..6053, 5975..6055, 5975..6055, 5976..6056, 6194..6280, 6197..6289, 6198..6293, 6204..6290, 6493..6546, 6493..6540, 6498..6542		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31536	Strand	-
Start	7358	End	7546
Name	OJ990617_05.9924.C14.o1.tc	Method	TBLASTX:Cress
Start	3796	End	6549
GI	none	Score	73
Exons	3796..3831, 3797..3832, 3952..4047, 3954..4001, 4137..4262, 4138..4260, 4666..4752, 4667..4753, 5004..5198, 5055..5225, 5069..5200, 5698..5796, 5702..5803, 5717..5803, 5976..6056, 6197..6289, 6198..6293, 6493..6549		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31536	Strand	-
Start	7358	End	7546
Name	OJ990617_05.9924.C14.o1.ts	Method	TBLASTX:Soybean
Start	3799	End	6293
GI	none	Score	69
Exons	3799..3831, 3800..3832, 3952..4047, 4137..4262, 4138..4260, 4141..4266, 4666..4752, 4667..4753, 5019..5213, 5042..5206, 5704..5802, 5708..5803, 5975..6055, 5976..6056, 6173..6289, 6197..6289, 6198..6293, 6198..6290		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31536	Strand	-
Start	7358	End	7546
Name	OJ990617_05.9924.C14.o1.tw	Method	TBLASTX:Wheat
Start	3800	End	4239
GI	none	Score	63
Exons	3800..3832, 3952..4047, 4137..4238, 4138..4239		

Seq. No.	14824	Seq. ID	OJ990617_05.9924.C14
Gene No.	31536	Strand	-
Start	7358	End	7546
Name	OJ990617_05.9924.C14.o3.gs	Method	GENSCAN
Start	7358	End	7546
GI	none	Score	.75
Exons	7358..7546		

Seq. No.	14825	Seq. ID	OJ990617_05.9924.C15
Gene No.	31537	Strand	+
Start	1523	End	3036
Name	OJ990617_05.9924.C15.o1.gs	Method	GENSCAN
Start	1523	End	2809
GI	none	Score	.63
Exons	1523..1779, 1870..1935, 2054..2192, 2490..2631, 2756..2809		

Seq. No.	14825	Seq. ID	OJ990617_05.9924.C15
Gene No.	31537	Strand	+
Start	1523	End	3036
Name	OJ990617_05.9924.C15.o1.gp	Method	AAT/GAP
Start	1574	End	3036
GI	1046_1.R1084	Score	1554
Exons	1574..1779, 1870..1935, 2054..2192, 2490..2631, 2756..3036		
GI Descrip.	'2920837 4.0e-89 (U95135) Os-FIERG1 gene product [Oryza sativa]'		

Seq. No.	14825	Seq. ID	OJ990617_05.9924.C15
Gene No.	31537	Strand	+
Start	1523	End	3036
Name	OJ990617_05.9924.C15.o1.np	Method	AAT/NAP
Start	1701	End	2806
GI	2920837	Score	697
Exons	1701..1779, 1870..1935, 2054..2192, 2490..2631, 2756..2806		
GI Descrip.	(U95135) Os-FIERG1 gene product [Oryza sativa]		

Seq. No.	14825	Seq. ID	OJ990617_05.9924.C15
Gene No.	31538	Strand	-
Start	4430	End	11949
Name	OJ990617_05.9924.C15.o1.tw	Method	TBLASTX:Wheat
Start	1622	End	2159
GI	none	Score	101
Exons	1622..1777, 1692..1784, 1707..1778, 1720..1806, 1721..1807, 1868..1936, 1868..1933, 1869..1940, 2053..2157, 2053..2142, 2058..2159		

Seq. No.	14825	Seq. ID	OJ990617_05.9924.C15
Gene No.	31538	Strand	-
Start	4430	End	11949
Name	OJ990617_05.9924.C15.o2.tm	Method	TBLASTX:Maize
Start	1667	End	2565
GI	none	Score	99
Exons	1667..1768, 1692..1778, 1698..1775, 1872..1940, 1877..1930, 1879..1935, 2052..2192, 2053..2193, 2053..2142, 2058..2192, 2141..2194, 2473..2565		

Seq. No.	14825	Seq. ID	OJ990617_05.9924.C15
Gene No.	31538	Strand	-
Start	4430	End	11949
Name	OJ990617_05.9924.C15.o3.gp	Method	AAT/GAP
Start	4430	End	6980
GI	3683_1.R1084	Score	2022
Exons	4430..5204, 6373..6597, 6812..6980		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 2.0e-45 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	14825	Seq. ID	OJ990617_05.9924.C15
Gene No.	31538	Strand	-
Start	4430	End	11949
Name	OJ990617_05.9924.C15.o2.np	Method	AAT/NAP
Start	5079	End	10668
GI	1652280	Score	573
Exons	5079..5218, 6382..6597, 6812..7207, 7846..8005, 8084..8233, 8311..8417, 8525..8587, 8847..9029, 9303..9489, 9948..10076, 10158..10235, 10309..10422, 10564..10668		

GI Descrip. (D90904) ribonuclease II [Synechocystis sp.]

Seq. No.	14825	Seq. ID	OJ990617_05.9924.C15
Gene No.	31538	Strand	-
Start	4430	End	11949
Name	OJ990617_05.9924.C15.o2.gs	Method	GENSCAN
Start	5082	End	11949
GI	none	Score	.87
Exons	5082..5204, 6373..6597, 6812..7207, 7846..8041, 8084..8233, 8311..8417, 8480..8587, 8847..9029, 9271..9489, 9948..10076, 10158..10235, 10309..10422, 10564..10723, 11717..11949		

Seq. No.	14825	Seq. ID	OJ990617_05.9924.C15
Gene No.	31538	Strand	-
Start	4430	End	11949
Name	OJ990617_05.9924.C15.o1.ts	Method	TBLASTX:Soybean
Start	6457	End	7124
GI	none	Score	67
Exons	6457..6600, 6458..6595, 6460..6600, 6461..6604, 6471..6611, 6798..7124, 6807..7049, 6809..7123		

Seq. No.	14825	Seq. ID	OJ990617_05.9924.C15
Gene No.	31538	Strand	-
Start	4430	End	11949
Name	OJ990617_05.9924.C15.o1.tm	Method	TBLASTX:Maize
Start	6992	End	8189
GI	none	Score	298
Exons	6992..7213, 6993..7208, 6995..7219, 7822..7881, 7844..7999, 7845..8006, 7845..8006, 7936..8007, 7943..8008, 8084..8188, 8086..8187, 8091..8189		

Seq. No.	14825	Seq. ID	OJ990617_05.9924.C15
Gene No.	31538	Strand	-
Start	4430	End	11949
Name	OJ990617_05.9924.C15.o4.gp	Method	AAT/GAP
Start	7126	End	8213
GI	LIB3434-026-P1-K1-G9	Score	678
Exons	7126..7207, 7846..8005, 8084..8213		
GI Descrip.	'1652280/dbj|BAA17203| 3.0e-14 (D90904) ribonuclease II [Synechocystis sp.]'		

Seq. No.	14825	Seq. ID	OJ990617_05.9924.C15
Gene No.	31538	Strand	-
Start	4430	End	11949
Name	OJ990617_05.9924.C15.o1.tc	Method	TBLASTX:Cress
Start	7942	End	8581
GI	none	Score	64
Exons	7942..8004, 7943..8005, 8086..8235, 8087..8236, 8310..8420, 8311..8391, 8313..8420, 8525..8581		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31539	Strand	+
Start	2056	End	5482
Name	OJ990617_05.9924.C16.o1.gs	Method	GENSCAN
Start	2056	End	5482
GI	none	Score	.69
Exons	2056..2370, 3812..3983, 5409..5482		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31540	Strand	+
Start	7891	End	13452
Name	OJ990617_05.9924.C16.o1.np	Method	AAT/NAP
Start	7891	End	13443
GI	3236247	Score	1287
Exons	7891..8042, 11290..11491, 11643..11928, 12019..13443		
GI Descrip.	(AC004684) putative SCARECROW gene regulator [Arabidopsis thaliana]		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31540	Strand	+
Start	7891	End	13452
Name	OJ990617_05.9924.C16.o3.gs	Method	GENSCAN
Start	10996	End	13452
GI	none	Score	.52
Exons	10996..13452		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31540	Strand	+
Start	7891	End	13452
Name	OJ990617_05.9924.C16.o1.gp	Method	AAT/GAP
Start	11677	End	12407
GI	none	Score	1451
Exons	11677..12407		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31541	Strand	-
Start	12962	End	13878
Name	OJ990617_05.9924.C16.o2.gp	Method	AAT/GAP
Start	12962	End	13878
GI	3411_1.R1084	Score	1815
Exons	12962..13878		
GI Descrip.	'3236247 4.0e-54 (AC004684) SCARECROW-like protein [Arabidopsis thaliana]'		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31542	Strand	-
Start	15732	End	15932
Name	OJ990617_05.9924.C16.o4.gs	Method	GENSCAN
Start	15732	End	15932
GI	none	Score	.98
Exons	15732..15932		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31543	Strand	-
Start	16927	End	17366
Name	OJ990617_05.9924.C16.o2.tm	Method	TBLASTX:Maize
Start	11968	End	12407
GI	none	Score	343
Exons	11968..12231, 11987..12190, 11988..12407, 12022..12405, 12288..12407		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31543	Strand	-
Start	16927	End	17366

Name	OJ990617_05.9924.C16.o2.ts	Method	TBLASTX:Soybean
Start	12313	End	12750
GI	none	Score	260
Exons	12313..12750, 12565..12750		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31543	Strand	-
Start	16927	End	17366
Name	OJ990617_05.9924.C16.o1.tc	Method	TBLASTX:Cress
Start	12469	End	13242
GI	none	Score	228
Exons	12469..12705, 12531..12719, 12696..12797, 12706..13242, 12727..13167, 12924..13241		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31543	Strand	-
Start	16927	End	17366
Name	OJ990617_05.9924.C16.o1.tm	Method	TBLASTX:Maize
Start	12577	End	13556
GI	none	Score	1364
Exons	12577..13440, 12577..13218, 12579..13433, 13297..13437, 13518..13556		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31543	Strand	-
Start	16927	End	17366
Name	OJ990617_05.9924.C16.o2.tw	Method	TBLASTX:Wheat
Start	12691	End	13092
GI	none	Score	195
Exons	12691..13092, 12708..12749		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31543	Strand	-
Start	16927	End	17366
Name	OJ990617_05.9924.C16.o1.ts	Method	TBLASTX:Soybean
Start	12760	End	13433
GI	none	Score	638
Exons	12760..13335, 12762..12842, 12775..13209, 12921..13331, 13339..13431, 13386..13433		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31543	Strand	-
Start	16927	End	17366
Name	OJ990617_05.9924.C16.o1.tw	Method	TBLASTX:Wheat
Start	13184	End	13508
GI	none	Score	405
Exons	13184..13426, 13186..13428, 13482..13508		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16
Gene No.	31543	Strand	-
Start	16927	End	17366
Name	OJ990617_05.9924.C16.o2.tc	Method	TBLASTX:Cress
Start	13243	End	13431
GI	none	Score	84
Exons	13243..13335, 13339..13431		

Seq. No.	14826	Seq. ID	OJ990617_05.9924.C16

Gene No.	31543	Strand	-
Start	16927	End	17366
Name	OJ990617_05.9924.C16.o5.gs	Method	GENSCAN
Start	16927	End	17366
GI	none	Score	.63
Exons	16927..17123, 17312..17366		

Seq. No.	14827	Seq. ID	OJ990617_01.9924.C1
Gene No.	31544	Strand	-
Start	1	End	921
Name	OJ990617_01.9924.C1.o1.np	Method	AAT/NAP
Start	1	End	214
GI	6651300	Score	155
Exons	1..214		
GI Descrip.	(AF161333) S-locus related 1 [Raphanus raphanistrum subsp. raphanistrum]		

Seq. No.	14827	Seq. ID	OJ990617_01.9924.C1
Gene No.	31544	Strand	-
Start	1	End	921
Name	OJ990617_01.9924.C1.o1.tm	Method	TBLASTX:Maize
Start	34	End	256
GI	none	Score	103
Exons	34..117, 35..124, 44..118, 156..206, 161..199, 218..256, 221..256		

Seq. No.	14827	Seq. ID	OJ990617_01.9924.C1
Gene No.	31544	Strand	-
Start	1	End	921
Name	OJ990617_01.9924.C1.o1.gs	Method	GENSCAN
Start	81	End	921
GI	none	Score	.55
Exons	81..263, 728..921		

Seq. No.	14828	Seq. ID	OJ990617_01.9924.C2
Gene No.	31545	Strand	+
Start	2051	End	2330
Name	OJ990617_01.9924.C2.o1.gp	Method	AAT/GAP
Start	2051	End	2330
GI	LIB3432-020-P1-K1-H1	Score	507
Exons	2051..2330		
GI Descrip.	'2735017 1.0e-40 (U82481) KI domain interacting kinase 1 [Zea mays]'		

Seq. No.	14828	Seq. ID	OJ990617_01.9924.C2
Gene No.	31546	Strand	-
Start	310	End	2330
Name	OJ990617_01.9924.C2.o1.gs	Method	GENSCAN
Start	310	End	2092
GI	none	Score	.78
Exons	310..552, 1525..1610, 1720..1870, 2004..2092		

Seq. No.	14828	Seq. ID	OJ990617_01.9924.C2
Gene No.	31546	Strand	-
Start	310	End	2330
Name	OJ990617_01.9924.C2.o1.tm	Method	TBLASTX:Maize
Start	1306	End	1886

GI	none	Score	182
Exons	1306..1350, 1308..1625, 1308..1625, 1387..1626, 1397..1630, 1708..1884, 1758..1886, 1760..1885, 1782..1886		

Seq. No.	14828	Seq. ID	OJ990617_01.9924.C2
Gene No.	31546	Strand	-
Start	310	End	2330
Name	OJ990617_01.9924.C2.o1.ts	Method	TBLASTX:Soybean
Start	1308	End	2246
GI	none	Score	119
Exons	1308..1400, 1386..1610, 1390..1611, 1763..1870, 1768..1869, 2007..2246, 2030..2236		

Seq. No.	14828	Seq. ID	OJ990617_01.9924.C2
Gene No.	31546	Strand	-
Start	310	End	2330
Name	OJ990617_01.9924.C2.o1.np	Method	AAT/NAP
Start	1311	End	2330
GI	3021283	Score	539
Exons	1311..1625, 1732..1870, 2004..2330		
GI Descrip.	(AL022347) serine/threonine kinase-like protein [Arabidopsis thaliana]		

Seq. No.	14828	Seq. ID	OJ990617_01.9924.C2
Gene No.	31546	Strand	-
Start	310	End	2330
Name	OJ990617_01.9924.C2.o2.tc	Method	TBLASTX:Cress
Start	1398	End	1646
GI	none	Score	84
Exons	1398..1646, 1399..1623		

Seq. No.	14828	Seq. ID	OJ990617_01.9924.C2
Gene No.	31546	Strand	-
Start	310	End	2330
Name	OJ990617_01.9924.C2.o2.tw	Method	TBLASTX:Wheat
Start	1407	End	1625
GI	none	Score	63
Exons	1407..1610, 1408..1530, 1449..1625		

Seq. No.	14828	Seq. ID	OJ990617_01.9924.C2
Gene No.	31546	Strand	-
Start	310	End	2330
Name	OJ990617_01.9924.C2.o1.tc	Method	TBLASTX:Cress
Start	1982	End	2233
GI	none	Score	151
Exons	1982..2221, 2004..2225, 2027..2233		

Seq. No.	14828	Seq. ID	OJ990617_01.9924.C2
Gene No.	31546	Strand	-
Start	310	End	2330
Name	OJ990617_01.9924.C2.o1.tw	Method	TBLASTX:Wheat
Start	2000	End	2243
GI	none	Score	127
Exons	2000..2221, 2011..2136, 2027..2233, 2055..2243		

Seq. No.	14828	Seq. ID	OJ990617_01.9924.C2
Gene No.	31546	Strand	-

Start	310	End	2330
Name	OJ990617_01.9924.C2.o2.tm	Method	TBLASTX:Maize
Start	2004	End	2216
GI	none	Score	193
Exons	2004..2213, 2005..2151, 2027..2215, 2073..2216		

Seq. No.	14829	Seq. ID	OJ990617_01.9924.C3
Gene No.	31547	Strand	-
Start	163	End	1770
Name	OJ990617_01.9924.C3.o2.tm	Method	TBLASTX:Maize
Start	3	End	641
GI	none	Score	76
Exons	3..62, 4..60, 161..334, 163..336, 163..357, 545..640, 546..641		

Seq. No.	14829	Seq. ID	OJ990617_01.9924.C3
Gene No.	31547	Strand	-
Start	163	End	1770
Name	OJ990617_01.9924.C3.o1.gs	Method	GENSCAN
Start	163	End	1609
GI	none	Score	.57
Exons	163..341, 808..1609		

Seq. No.	14829	Seq. ID	OJ990617_01.9924.C3
Gene No.	31547	Strand	-
Start	163	End	1770
Name	OJ990617_01.9924.C3.o1.np	Method	AAT/NAP
Start	803	End	1770
GI	2351170	Score	424
Exons	803..1770		
GI Descrip.	(D85219) S glycoprotein [Brassica rapa]		

Seq. No.	14829	Seq. ID	OJ990617_01.9924.C3
Gene No.	31547	Strand	-
Start	163	End	1770
Name	OJ990617_01.9924.C3.o3.tm	Method	TBLASTX:Maize
Start	857	End	1085
GI	none	Score	58
Exons	857..910, 867..908, 899..1060, 912..1085, 913..1044, 972..1055		

Seq. No.	14829	Seq. ID	OJ990617_01.9924.C3
Gene No.	31547	Strand	-
Start	163	End	1770
Name	OJ990617_01.9924.C3.o1.tm	Method	TBLASTX:Maize
Start	1424	End	1769
GI	none	Score	52
Exons	1424..1501, 1518..1715, 1524..1688, 1529..1714, 1541..1738, 1713..1769, 1715..1768		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31548	Strand	+
Start	5100	End	6686
Name	OJ990617_01.9924.C4.o2.gs	Method	GENSCAN
Start	5100	End	6686
GI	none	Score	.86
Exons	5100..5160, 5532..5559, 6092..6215, 6459..6686		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4

Gene No.	31549	Strand	+
Start	11985	End	12480
Name	OJ990617_01.9924.C4.o4.gs	Method	GENSCAN
Start	11985	End	12480
GI	none	Score	.4
Exons	11985..12136, 12397..12480		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o1.gs	Method	GENSCAN
Start	891	End	3922
GI	none	Score	.68
Exons	891..1193, 1278..1428, 1533..1770, 2170..2349, 2413..2529, 2659..3922		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o1.np	Method	AAT/NAP
Start	894	End	9704
GI	6686398	Score	2455
Exons	894..1193, 1278..1428, 1533..1770, 1865..2075, 2156..2357, 2486..2617, 2659..3873, 4595..4892, 4985..5134, 5234..5471, 7326..7536, 7931..8124, 8161..8294, 8411..9704		
GI Descrip.	(AC007234) *F1E22.15 [Arabidopsis thaliana]		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o1.tm	Method	TBLASTX:Maize
Start	963	End	8038
GI	none	Score	39
Exons	963..1022, 990..1019, 1018..1098, 1032..1205, 1141..1206, 1321..1428, 1332..1427, 1346..1429, 1533..1751, 1553..1780, 1866..2084, 1921..2019, 2156..2260, 4662..4721, 4690..4722, 4717..4797, 4728..4901, 4840..4893, 5028..5117, 5033..5116, 5234..5452, 5236..5481, 5591..5809, 5595..5750, 6516..6608, 6518..6691, 6803..6910, 6817..6909, 6943..7206, 6976..7071, 6987..7205, 7327..7545, 7334..7510, 7931..8038, 7938..8024		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o1.ts	Method	TBLASTX:Soybean
Start	978	End	8012
GI	none	Score	80
Exons	978..1205, 982..1206, 1326..1427, 1326..1427, 1333..1428, 1333..1428, 1529..1708, 1533..1619, 1536..1772, 1553..1780, 1866..2084, 1918..2019, 2156..2227, 4677..4901, 4681..4827, 5033..5116, 5040..5117, 5052..5117, 5230..5412, 5234..5386, 5236..5481, 5237..5473, 5591..5809, 5595..5750, 6470..6691, 6471..6608, 6803..6910, 6806..6907, 6817..6909, 6976..7074, 6981..7199, 6987..7229, 7033..7215, 7315..7479, 7315..7545, 7334..7510, 7931..8002, 7932..8012		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4

Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o1.tc	Method	TBLASTX:Cress
Start	981	End	8011
GI	none	Score	103
Exons	981..1205, 1300..1425, 1311..1424, 1336..1425, 1536..1751, 1553..1780, 1851..1997, 1859..1990, 1866..2084, 1936..2019, 2156..2239, 4680..4883, 4681..4821, 5027..5116, 5028..5117, 5236..5481, 5237..5452, 5579..5746, 5591..5809, 5592..5750, 6462..6611, 6470..6682, 6802..6906, 6803..6907, 6843..6911, 6981..7199, 6987..7229, 6988..7230, 7327..7545, 7339..7482, 7397..7513, 7931..8011, 7932..8003		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o2.tw	Method	TBLASTX:Wheat
Start	1152	End	7107
GI	none	Score	116
Exons	1152..1193, 1284..1427, 1321..1428, 1535..1654, 1536..1655, 1553..1654, 4851..4892, 4991..5116, 5028..5117, 5236..5355, 5236..5355, 5237..5356, 6641..6682, 6802..6906, 6802..6909, 6803..6910, 6987..7106, 6987..7106, 6988..7107		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o1.tw	Method	TBLASTX:Wheat
Start	1656	End	7539
GI	none	Score	72
Exons	1656..1820, 1658..1780, 1866..2078, 1918..2022, 5357..5449, 5357..5446, 5359..5523, 5359..5481, 5569..5664, 5582..5803, 5583..5744, 7108..7212, 7110..7229, 7297..7539, 7334..7510		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o3.tm	Method	TBLASTX:Maize
Start	2699	End	8579
GI	none	Score	58
Exons	2699..2758, 2700..2750, 2700..2762, 2747..2812, 2789..2929, 2790..2930, 8505..8579		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o3.ts	Method	TBLASTX:Soybean
Start	2711	End	8756
GI	none	Score	89
Exons	2711..2776, 2798..2845, 8463..8510, 8499..8651, 8500..8649, 8667..8756, 8674..8748		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o2.tc	Method	TBLASTX:Cress
Start	2975	End	9268

GI	none	Score	56
Exons	2975..3001, 3005..3064, 3080..3169, 3314..3424, 3462..3560, 3470..3553, 3602..3826, 3669..3806, 8526..8567, 8685..8762, 8760..8927, 9029..9088, 9143..9181, 9215..9268		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o2.tm	Method	TBLASTX:Maize
Start	3308	End	9481
GI	none	Score	49
Exons	3308..3358, 3311..3355, 3365..3580, 3378..3581, 3482..3583, 3554..3676, 3576..3656, 3605..3670, 3653..3763, 3677..3748, 3678..3755, 9110..9289, 9332..9481		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o2.ts	Method	TBLASTX:Soybean
Start	3374	End	9592
GI	none	Score	87
Exons	3374..3508, 3381..3524, 3518..3775, 3687..3770, 3770..3835, 9138..9272, 9140..9271, 9290..9373, 9291..9332, 9446..9481, 9454..9471, 9500..9592		

Seq. No.	14830	Seq. ID	OJ990617_01.9924.C4
Gene No.	31550	Strand	-
Start	891	End	12256
Name	OJ990617_01.9924.C4.o2.np	Method	AAT/NAP
Start	9431	End	12256
GI	6539570	Score	152
Exons	9431..9488, 11786..11847, 12050..12256		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	14831	Seq. ID	OJ990617_01.9924.C5
Gene No.	31551	Strand	+
Start	1	End	639
Name	OJ990617_01.9924.C5.o1.np	Method	AAT/NAP
Start	1	End	639
GI	4680179	Score	1085
Exons	1..639		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14831	Seq. ID	OJ990617_01.9924.C5
Gene No.	31551	Strand	+
Start	1	End	639
Name	OJ990617_01.9924.C5.o1.tw	Method	TBLASTX:Wheat
Start	1	End	438
GI	none	Score	496
Exons	1..438, 60..395		

Seq. No.	14831	Seq. ID	OJ990617_01.9924.C5
Gene No.	31551	Strand	+
Start	1	End	639
Name	OJ990617_01.9924.C5.o1.gs	Method	GENSCAN
Start	4	End	567
GI	none	Score	.48

Exons	4..567		
Seq. No.	14831	Seq. ID	OJ990617_01.9924.C5
Gene No.	31551	Strand	+
Start	1	End	639
Name	OJ990617_01.9924.C5.o1.tm	Method	TBLASTX:Maize
Start	25	End	492
GI	none	Score	389
Exons	25..492, 96..395		
Seq. No.	14831	Seq. ID	OJ990617_01.9924.C5
Gene No.	31551	Strand	+
Start	1	End	639
Name	OJ990617_01.9924.C5.o2.ts	Method	TBLASTX:Soybean
Start	25	End	306
GI	none	Score	181
Exons	25..306, 108..305		
Seq. No.	14831	Seq. ID	OJ990617_01.9924.C5
Gene No.	31551	Strand	+
Start	1	End	639
Name	OJ990617_01.9924.C5.o1.ts	Method	TBLASTX:Soybean
Start	379	End	639
GI	none	Score	57
Exons	379..411, 381..407, 415..639, 422..562, 507..635		
Seq. No.	14831	Seq. ID	OJ990617_01.9924.C5
Gene No.	31551	Strand	+
Start	1	End	639
Name	OJ990617_01.9924.C5.o2.tw	Method	TBLASTX:Wheat
Start	487	End	639
GI	none	Score	192
Exons	487..639, 488..565, 516..638		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31552	Strand	+
Start	2400	End	6259
Name	OJ990617_01.9924.C6.o2.np	Method	AAT/NAP
Start	2400	End	6259
GI	4680179	Score	5550
Exons	2400..6259		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o1.gs	Method	GENSCAN
Start	175	End	1570
GI	none	Score	.85
Exons	175..256, 740..858, 1265..1401, 1537..1570		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o1.np	Method	AAT/NAP
Start	637	End	6259
GI	4680183	Score	139

Exons	637..728, 1333..1401, 6218..6259		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o6.tw	Method	TBLASTX:Wheat
Start	2613	End	2993
GI	none	Score	304
Exons	2613..2993, 2633..2992		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o6.tm	Method	TBLASTX:Maize
Start	2874	End	3206
GI	none	Score	226
Exons	2874..3206, 2897..3061		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o7.tw	Method	TBLASTX:Wheat
Start	3534	End	3935
GI	none	Score	150
Exons	3534..3758, 3548..3700, 3762..3935, 3795..3854, 3836..3904		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o7.tm	Method	TBLASTX:Maize
Start	3572	End	3848
GI	none	Score	195
Exons	3572..3673, 3573..3848		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o3.tw	Method	TBLASTX:Wheat
Start	4110	End	4550
GI	none	Score	523
Exons	4110..4550, 4214..4549, 4221..4550		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o4.tm	Method	TBLASTX:Maize
Start	4122	End	4411
GI	none	Score	322
Exons	4122..4409, 4220..4411		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o4.ts	Method	TBLASTX:Soybean
Start	4146	End	4460
GI	none	Score	183

Exons	4146..4460		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o3.tm	Method	TBLASTX:Maize
Start	4479	End	4997
GI	none	Score	68
Exons	4479..4550, 4587..4676, 4662..4997, 4748..4879, 4904..4951		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o1.ts	Method	TBLASTX:Soybean
Start	4587	End	4946
GI	none	Score	458
Exons	4587..4946, 4594..4734, 4599..4916, 4679..4945		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o4.tw	Method	TBLASTX:Wheat
Start	4659	End	4961
GI	none	Score	396
Exons	4659..4961, 4660..4737, 4662..4952, 4688..4960		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o1.tw	Method	TBLASTX:Wheat
Start	4962	End	5471
GI	none	Score	619
Exons	4962..5471, 4970..5380, 5004..5384		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o3.ts	Method	TBLASTX:Soybean
Start	4968	End	5213
GI	none	Score	209
Exons	4968..5213		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o1.tm	Method	TBLASTX:Maize
Start	5034	End	5397
GI	none	Score	477
Exons	5034..5387, 5036..5380, 5074..5397		
Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o2.tw	Method	TBLASTX:Wheat
Start	5475	End	5954
GI	none	Score	587
Exons	5475..5954, 5508..5918, 5699..5953		

Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o5.tm	Method	TBLASTX:Maize
Start	5571	End	5918
GI	none	Score	272
Exons	5571..5834, 5604..5918, 5714..5917		

Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o1.tc	Method	TBLASTX:Cress
Start	5661	End	5978
GI	none	Score	90
Exons	5661..5834, 5835..5978, 5837..5977		

Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o2.ts	Method	TBLASTX:Soybean
Start	5742	End	6002
GI	none	Score	300
Exons	5742..6002, 5747..6001		

Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o2.tm	Method	TBLASTX:Maize
Start	5919	End	6239
GI	none	Score	455
Exons	5919..6236, 5930..6235, 6018..6239		

Seq. No.	14832	Seq. ID	OJ990617_01.9924.C6
Gene No.	31553	Strand	-
Start	175	End	6259
Name	OJ990617_01.9924.C6.o5.tw	Method	TBLASTX:Wheat
Start	5960	End	6257
GI	none	Score	389
Exons	5960..6244, 5961..6257, 5961..6257		

Seq. No.	14833	Seq. ID	OJ990617_01.9924.C7
Gene No.	31554	Strand	+
Start	1	End	471
Name	OJ990617_01.9924.C7.o1.np	Method	AAT/NAP
Start	1	End	471
GI	2829910	Score	62
Exons	1..41, 172..246, 435..471		
GI Descrip.	(AC002291) Unknown protein, contains regulator of chromosome condensation motifs [Arabidopsis thaliana]		

Seq. No.	14833	Seq. ID	OJ990617_01.9924.C7
Gene No.	31554	Strand	+
Start	1	End	471
Name	OJ990617_01.9924.C7.o1.gs	Method	GENSCAN
Start	172	End	250
GI	none	Score	.5

Exons	172..250		
Seq. No.	14834	Seq. ID	OJ990617_01.9924.C8
Gene No.	31555	Strand	+
Start	1	End	222
Name	OJ990617_01.9924.C8.o1.np	Method	AAT/NAP
Start	1	End	222
GI	4587577	Score	158
Exons	1..222		
GI Descrip.	(AC006550) F10O3.17 [Arabidopsis thaliana]		
Seq. No.	14834	Seq. ID	OJ990617_01.9924.C8
Gene No.	31555	Strand	+
Start	1	End	222
Name	OJ990617_01.9924.C8.o1.tm	Method	TBLASTX:Maize
Start	4	End	181
GI	none	Score	216
Exons	4..138, 9..179, 10..180, 149..181		
Seq. No.	14834	Seq. ID	OJ990617_01.9924.C8
Gene No.	31555	Strand	+
Start	1	End	222
Name	OJ990617_01.9924.C8.o1.ts	Method	TBLASTX:Soybean
Start	31	End	213
GI	none	Score	176
Exons	31..213, 33..170		
Seq. No.	14834	Seq. ID	OJ990617_01.9924.C8
Gene No.	31555	Strand	+
Start	1	End	222
Name	OJ990617_01.9924.C8.o1.gs	Method	GENSCAN
Start	97	End	180
GI	none	Score	.96
Exons	97..180		
Seq. No.	14835	Seq. ID	OJ990617_01.9924.C9
Gene No.	31556	Strand	-
Start	69	End	651
Name	OJ990617_01.9924.C9.o1.gs	Method	GENSCAN
Start	69	End	651
GI	none	Score	.79
Exons	69..205, 528..651		
Seq. No.	14835	Seq. ID	OJ990617_01.9924.C9
Gene No.	31557	Strand	-
Start	1651	End	1932
Name	OJ990617_01.9924.C9.o2.gs	Method	GENSCAN
Start	1651	End	1932
GI	none	Score	.65
Exons	1651..1932		
Seq. No.	14836	Seq. ID	OJ990617_01.9924.C11
Gene No.	31558	Strand	+
Start	985	End	4521
Name	OJ990617_01.9924.C11.o2.np	Method	AAT/NAP
Start	985	End	4521
GI	5852180	Score	675

Exons	985..1038, 2022..2139, 2191..2603, 3306..3343, 4482..4521		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	14836	Seq. ID	OJ990617_01.9924.C11
Gene No.	31559	Strand	-
Start	1	End	1329
Name	OJ990617_01.9924.C11.o1.np	Method	AAT/NAP
Start	1	End	1329
GI	5803259	Score	245
Exons	1..176, 1283..1329		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	14836	Seq. ID	OJ990617_01.9924.C11
Gene No.	31559	Strand	-
Start	1	End	1329
Name	OJ990617_01.9924.C11.o1.gp	Method	AAT/GAP
Start	887	End	1270
GI	uC-osf1cyp033a04b1	Score	669
Exons	887..1270		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31560	Strand	+
Start	1	End	3073
Name	OJ990617_01.9924.C12.o2.np	Method	AAT/NAP
Start	1	End	1859
GI	5042454	Score	199
Exons	1..63, 623..690, 1369..1552, 1806..1859		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31560	Strand	+
Start	1	End	3073
Name	OJ990617_01.9924.C12.o1.gs	Method	GENSCAN
Start	226	End	3073
GI	none	Score	.76
Exons	226..362, 685..760, 1463..1552, 1806..1980, 2958..3073		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31561	Strand	+
Start	5183	End	13866
Name	OJ990617_01.9924.C12.o2.gs	Method	GENSCAN
Start	5183	End	13846
GI	none	Score	.52
Exons	5183..5303, 6483..6649, 6833..7033, 7736..7895, 7993..8206, 8424..8547, 8724..8914, 10378..10469, 10591..11070, 12606..13458, 13528..13846		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31561	Strand	+
Start	5183	End	13866
Name	OJ990617_01.9924.C12.o4.np	Method	AAT/NAP
Start	5186	End	8640
GI	1332411	Score	455
Exons	5186..5303, 6483..6649, 6833..7033, 7736..7907, 8023..8203, 8424..8640		

GI Descrip. (D85102) dihydroflavonol 4-reductase [Rosa hybrida]

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31561	Strand	+
Start	5183	End	13866
Name	OJ990617_01.9924.C12.o1.gp	Method	AAT/GAP
Start	10626	End	10759
GI	uC-osf1M202039g09b1	Score	176
Exons	10626..10759		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 6.0e-28 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31561	Strand	+
Start	5183	End	13866
Name	OJ990617_01.9924.C12.o5.np	Method	AAT/NAP
Start	10690	End	13866
GI	3152576	Score	608
Exons	10690..11070, 12606..13464, 13528..13866		
GI Descrip.	(AC002986) Similar to liver-specific transport protein gb|L27651 from Rattus norviegicus. [Arabidopsis thaliana]		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31561	Strand	+
Start	5183	End	13866
Name	OJ990617_01.9924.C12.o2.gp	Method	AAT/GAP
Start	13081	End	13402
GI	568937	Score	633
Exons	13081..13402		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31562	Strand	+
Start	14805	End	17392
Name	OJ990617_01.9924.C12.o3.gs	Method	GENSCAN
Start	14805	End	17392
GI	none	Score	.69
Exons	14805..14877, 15206..15450, 17156..17186, 17310..17392		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31563	Strand	+
Start	18913	End	20543
Name	OJ990617_01.9924.C12.o4.gp	Method	AAT/GAP
Start	18874	End	19526
GI	71813_1.R1084	Score	510
Exons	18874..19072, 19191..19291, 19494..19526		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 6.0e-28 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31563	Strand	+
Start	18913	End	20543
Name	OJ990617_01.9924.C12.o5.gp	Method	AAT/GAP
Start	18874	End	19525
GI	71813_1.R1084	Score	511
Exons	18874..19072, 19191..19295, 19491..19525		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 6.0e-28 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31563	Strand	+
Start	18913	End	20543
Name	OJ990617_01.9924.C12.o6.np	Method	AAT/NAP
Start	18904	End	20369
GI	4262149	Score	751
Exons	18904..19072, 19191..19291, 19665..19916, 19992..20174, 20208..20369		
GI Descrip.	(AC005275) putative xyloglucan endotransglycosylase [Arabidopsis thaliana]		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31563	Strand	+
Start	18913	End	20543
Name	OJ990617_01.9924.C12.o4.gs	Method	GENSCAN
Start	18913	End	20363
GI	none	Score	.61
Exons	18913..19072, 19191..19295, 19648..19798, 19850..20363		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31563	Strand	+
Start	18913	End	20543
Name	OJ990617_01.9924.C12.o6.gp	Method	AAT/GAP
Start	18939	End	19295
GI	71813_1.R1084	Score	382
Exons	18939..19072, 19191..19295		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 6.0e-28 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31563	Strand	+
Start	18913	End	20543
Name	OJ990617_01.9924.C12.o7.gp	Method	AAT/GAP
Start	20076	End	20543
GI	76282_1.R1084	Score	848
Exons	20076..20543		
GI Descrip.	'4262149/gb|AAD14449| 7.0e-17 (AC005275) putative xyloglucan endotransglycosylase [Arabidopsis thaliana]'		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31564	Strand	+
Start	21459	End	22908
Name	OJ990617_01.9924.C12.o5.gs	Method	GENSCAN
Start	21459	End	22908
GI	none	Score	.78
Exons	21459..21479, 22047..22299, 22767..22843, 22858..22908		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31565	Strand	-
Start	1	End	317
Name	OJ990617_01.9924.C12.o1.np	Method	AAT/NAP
Start	1	End	317
GI	6539586	Score	215
Exons	1..42, 164..317		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o5.tm	Method	TBLASTX:Maize
Start	5170	End	6910
GI	none	Score	164
Exons	5170..5301, 5195..5302, 6461..6649, 6466..6651, 6482..6649, 6483..6650, 6830..6910		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o3.tw	Method	TBLASTX:Wheat
Start	5215	End	6946
GI	none	Score	125
Exons	5215..5301, 5216..5302, 5233..5304, 6482..6658, 6482..6631, 6824..6943, 6830..6946		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o2.tw	Method	TBLASTX:Wheat
Start	10739	End	10891
GI	none	Score	216
Exons	10739..10891, 10740..10886		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o4.ts	Method	TBLASTX:Soybean
Start	10740	End	11072
GI	4397580	Score	185
Exons	10740..10880, 10748..10891, 10956..11072, 10973..11071		
GI Descrip.	3152576 6.0e-14 (AC002986) Similar to liver-specific transport protein gb_L27651 from Rattus norviegicus. [Arabidopsis thaliana]		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o2.tc	Method	TBLASTX:Cress
Start	10977	End	12936
GI	none	Score	72
Exons	10977..11072, 12598..12936, 12599..12859		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o2.ts	Method	TBLASTX:Soybean
Start	12626	End	13072
GI	none	Score	322
Exons	12626..12904, 12628..12888, 12905..13072, 12931..13071		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o5.ts	Method	TBLASTX:Soybean

Start	13162	End	13573
GI	none	Score	269
Exons	13162..13422, 13178..13459, 13526..13573		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o4.tm	Method	TBLASTX:Maize
Start	18932	End	19840
GI	none	Score	44
Exons	18932..18943, 18932..18964, 18981..19031, 18982..19074, 19148..19297, 19189..19290, 19665..19838, 19667..19837, 19709..19840		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o1.tc	Method	TBLASTX:Cress
Start	18982	End	20351
GI	none	Score	93
Exons	18982..19074, 19154..19297, 19189..19290, 19665..19898, 19667..19897, 19991..20104, 19992..20144, 20022..20129, 20214..20351		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o1.ts	Method	TBLASTX:Soybean
Start	18982	End	20351
GI	none	Score	115
Exons	18982..19074, 19187..19297, 19189..19290, 19665..19898, 19667..19900, 19991..20143, 19992..20165, 20213..20350, 20214..20351		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o1.tm	Method	TBLASTX:Maize
Start	19841	End	20426
GI	none	Score	92
Exons	19841..19897, 19842..19898, 19923..20006, 19980..20363, 19991..20359, 20400..20426, 20401..20421		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o7.np	Method	AAT/NAP
Start	23248	End	25361
GI	3269281	Score	561
Exons	23248..23311, 24478..25361		
GI Descrip.	(AL030978) putative protein [Arabidopsis thaliana]		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o6.gs	Method	GENSCAN
Start	24514	End	30943

GI	none	Score	.76
Exons	24514..25024, 25129..25322, 25971..26014, 26381..26478, 27359..27402, 27749..27868, 27998..28366, 28622..28772, 29613..29754, 30775..30943		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o3.tm	Method	TBLASTX:Maize
Start	24550	End	24885
GI	none	Score	185
Exons	24550..24591, 24592..24885, 24592..24885		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o3.ts	Method	TBLASTX:Soybean
Start	24592	End	25187
GI	none	Score	122
Exons	24592..25005, 24599..24988, 25050..25187, 25069..25167		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o2.tm	Method	TBLASTX:Maize
Start	24893	End	25341
GI	none	Score	70
Exons	24893..25000, 24895..25050, 24896..24988, 25057..25341, 25060..25335, 25062..25340		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o1.tw	Method	TBLASTX:Wheat
Start	24952	End	25340
GI	none	Score	86
Exons	24952..25038, 25062..25208, 25062..25208, 25063..25209, 25221..25340		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o8.gp	Method	AAT/GAP
Start	25982	End	26182
GI	3106943	Score	299
Exons	25982..26182		
GI Descrip.	1019378/dbj|D17785|RICNH4621 1.0e-104 Rice DNA for U3 small nuclear RNA, partial sequence		

Seq. No.	14837	Seq. ID	OJ990617_01.9924.C12
Gene No.	31566	Strand	-
Start	23248	End	30943
Name	OJ990617_01.9924.C12.o9.gp	Method	AAT/GAP
Start	27370	End	27569
GI	3106943	Score	374
Exons	27370..27569		
GI Descrip.	1019378/dbj|D17785|RICNH4621 1.0e-104 Rice DNA for U3 small		

nuclear RNA, partial sequence

Seq. No.	14838	Seq. ID	OJ990617_01.9924.C13
Gene No.	31567	Strand	-
Start	1459	End	1901
Name	OJ990617_01.9924.C13.o1.np	Method	AAT/NAP
Start	1459	End	1901
GI	6069646	Score	413
Exons	1459..1901		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	14838	Seq. ID	OJ990617_01.9924.C13
Gene No.	31568	Strand	-
Start	3365	End	5013
Name	OJ990617_01.9924.C13.o1.tm	Method	TBLASTX:Maize
Start	1569	End	1907
GI	none	Score	91
Exons	1569..1712, 1702..1821, 1800..1907		

Seq. No.	14838	Seq. ID	OJ990617_01.9924.C13
Gene No.	31568	Strand	-
Start	3365	End	5013
Name	OJ990617_01.9924.C13.o2.np	Method	AAT/NAP
Start	3365	End	5013
GI	6016874	Score	340
Exons	3365..3400, 4754..5013		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	14839	Seq. ID	OJ990617_01.9924.C14
Gene No.	31569	Strand	-
Start	367	End	2547
Name	OJ990617_01.9924.C14.o1.gs	Method	GENSCAN
Start	367	End	2547
GI	none	Score	.84
Exons	367..827, 1401..1560, 1951..2183, 2248..2385, 2469..2547		

Seq. No.	14839	Seq. ID	OJ990617_01.9924.C14
Gene No.	31569	Strand	-
Start	367	End	2547
Name	OJ990617_01.9924.C14.o1.np	Method	AAT/NAP
Start	371	End	2547
GI	6016874	Score	1801
Exons	371..710, 828..1007, 1401..1560, 1951..2183, 2248..2385, 2469..2547		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	14839	Seq. ID	OJ990617_01.9924.C14
Gene No.	31569	Strand	-
Start	367	End	2547

Name	OJ990617_01.9924.C14.o1.gp	Method	AAT/GAP
Start	1350	End	1858
GI	uC-osf1cyp110c07b1	Score	970
Exons	1350..1858		
GI Descrip.	'4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	14839	Seq. ID	OJ990617_01.9924.C14
Gene No.	31570	Strand	-
Start	2946	End	3103
Name	OJ990617_01.9924.C14.o2.tm	Method	TBLASTX:Maize
Start	433	End	676
GI	none	Score	97
Exons	433..666, 518..676		

Seq. No.	14839	Seq. ID	OJ990617_01.9924.C14
Gene No.	31570	Strand	-
Start	2946	End	3103
Name	OJ990617_01.9924.C14.o4.tm	Method	TBLASTX:Maize
Start	788	End	1140
GI	none	Score	131
Exons	788..1129, 859..1140		

Seq. No.	14839	Seq. ID	OJ990617_01.9924.C14
Gene No.	31570	Strand	-
Start	2946	End	3103
Name	OJ990617_01.9924.C14.o3.tm	Method	TBLASTX:Maize
Start	1345	End	1659
GI	none	Score	108
Exons	1345..1572, 1346..1564, 1585..1659		

Seq. No.	14839	Seq. ID	OJ990617_01.9924.C14
Gene No.	31570	Strand	-
Start	2946	End	3103
Name	OJ990617_01.9924.C14.o1.tm	Method	TBLASTX:Maize
Start	1753	End	2199
GI	none	Score	101
Exons	1753..1791, 1786..1842, 1879..2127, 1919..2128, 2113..2199		

Seq. No.	14839	Seq. ID	OJ990617_01.9924.C14
Gene No.	31570	Strand	-
Start	2946	End	3103
Name	OJ990617_01.9924.C14.o2.np	Method	AAT/NAP
Start	2946	End	3103
GI	6907084	Score	149
Exons	2946..3103		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	14840	Seq. ID	OJ990617_01.9924.C17
Gene No.	31571	Strand	+
Start	727	End	4245
Name	OJ990617_01.9924.C17.o1.np	Method	AAT/NAP
Start	727	End	4245
GI	4234852	Score	3567
Exons	727..887, 930..4245		
GI Descrip.	(AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	14840	Seq. ID	OJ990617_01.9924.C17
Gene No.	31571	Strand	+
Start	727	End	4245
Name	OJ990617_01.9924.C17.o1.tm	Method	TBLASTX:Maize
Start	819	End	1830
GI	none	Score	586
Exons	819..1397, 820..1428, 1438..1569, 1509..1550, 1674..1724, 1765..1830		

Seq. No.	14840	Seq. ID	OJ990617_01.9924.C17
Gene No.	31571	Strand	+
Start	727	End	4245
Name	OJ990617_01.9924.C17.o3.tw	Method	TBLASTX:Wheat
Start	1750	End	2187
GI	none	Score	110
Exons	1750..1947, 2017..2187, 2049..2171		

Seq. No.	14840	Seq. ID	OJ990617_01.9924.C17
Gene No.	31571	Strand	+
Start	727	End	4245
Name	OJ990617_01.9924.C17.o2.ts	Method	TBLASTX:Soybean
Start	2044	End	2430
GI	none	Score	344
Exons	2044..2430, 2055..2261		

Seq. No.	14840	Seq. ID	OJ990617_01.9924.C17
Gene No.	31571	Strand	+
Start	727	End	4245
Name	OJ990617_01.9924.C17.o2.tw	Method	TBLASTX:Wheat
Start	2206	End	2868
GI	none	Score	252
Exons	2206..2445, 2220..2444, 2485..2790, 2508..2768, 2769..2843, 2770..2868		

Seq. No.	14840	Seq. ID	OJ990617_01.9924.C17
Gene No.	31571	Strand	+
Start	727	End	4245
Name	OJ990617_01.9924.C17.o3.tm	Method	TBLASTX:Maize
Start	2221	End	2679
GI	none	Score	128
Exons	2221..2445, 2494..2679, 2496..2657		

Seq. No.	14840	Seq. ID	OJ990617_01.9924.C17
Gene No.	31571	Strand	+
Start	727	End	4245
Name	OJ990617_01.9924.C17.o2.tc	Method	TBLASTX:Cress
Start	2485	End	2865
GI	none	Score	123
Exons	2485..2685, 2698..2865		

Seq. No.	14840	Seq. ID	OJ990617_01.9924.C17
Gene No.	31571	Strand	+
Start	727	End	4245
Name	OJ990617_01.9924.C17.o3.ts	Method	TBLASTX:Soybean
Start	2485	End	2871
GI	none	Score	186

Exons	2485..2694, 2487..2666, 2698..2871		
Seq. No.	14840	Seq. ID	OJ990617_01.9924.C17
Gene No.	31571	Strand	+
Start	727	End	4245
Name	OJ990617_01.9924.C17.o1.ts	Method	TBLASTX:Soybean
Start	3382	End	3819
GI	5509260	Score	363
Exons	3382..3819, 3471..3743, 3786..3818		
GI Descrip.	-		
Seq. No.	14840	Seq. ID	OJ990617_01.9924.C17
Gene No.	31571	Strand	+
Start	727	End	4245
Name	OJ990617_01.9924.C17.o1.tc	Method	TBLASTX:Cress
Start	3469	End	3729
GI	none	Score	249
Exons	3469..3729, 3471..3707		
Seq. No.	14840	Seq. ID	OJ990617_01.9924.C17
Gene No.	31571	Strand	+
Start	727	End	4245
Name	OJ990617_01.9924.C17.o1.tw	Method	TBLASTX:Wheat
Start	3510	End	4245
GI	none	Score	353
Exons	3510..3857, 3511..3855, 3511..3864, 3840..4244, 3850..4245		
Seq. No.	14840	Seq. ID	OJ990617_01.9924.C17
Gene No.	31571	Strand	+
Start	727	End	4245
Name	OJ990617_01.9924.C17.o2.tm	Method	TBLASTX:Maize
Start	3511	End	3975
GI	none	Score	273
Exons	3511..3819, 3528..3818, 3853..3975		
Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31572	Strand	+
Start	1	End	1023
Name	OJ990617_01.9924.C18.o1.np	Method	AAT/NAP
Start	1	End	392
GI	4234852	Score	504
Exons	1..392		
GI Descrip.	(AF082133) gag-pol polyprotein [Zea mays]		
Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31572	Strand	+
Start	1	End	1023
Name	OJ990617_01.9924.C18.o1.gs	Method	GENSCAN
Start	54	End	1023
GI	none	Score	.43
Exons	54..375, 764..1023		
Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31573	Strand	-
Start	1	End	3496
Name	OJ990617_01.9924.C18.o2.np	Method	AAT/NAP
Start	1	End	3479

GI	5852933	Score	317
Exons	1..31, 1309..1559, 1670..1858, 2146..2324, 3032..3198, 3362..3479		
GI Descrip.	(AF167556) dihydroflavonol-4-reductase DFR1 [Glycine max]		

Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31573	Strand	-
Start	1	End	3496
Name	OJ990617_01.9924.C18.o2.gs	Method	GENSCAN
Start	1329	End	3482
GI	none	Score	.94
Exons	1329..1567, 1670..1811, 2115..2324, 3032..3198, 3362..3482		

Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31573	Strand	-
Start	1	End	3496
Name	OJ990617_01.9924.C18.o1.gp	Method	AAT/GAP
Start	3040	End	3496
GI	17023_1.R1084	Score	406
Exons	3040..3198, 3362..3496		
GI Descrip.	'4508073/gb|AAD21417.1| 1.0e-15 (AC005882) 43220 [Arabidopsis thaliana]'		

Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31574	Strand	-
Start	4201	End	5516
Name	OJ990617_01.9924.C18.o1.tw	Method	TBLASTX:Wheat
Start	2	End	341
GI	none	Score	236
Exons	2..175, 3..341		

Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31574	Strand	-
Start	4201	End	5516
Name	OJ990617_01.9924.C18.o3.tm	Method	TBLASTX:Maize
Start	1378	End	1802
GI	none	Score	51
Exons	1378..1425, 1380..1424, 1461..1595, 1462..1584, 1662..1790, 1665..1802, 1666..1800		

Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31574	Strand	-
Start	4201	End	5516
Name	OJ990617_01.9924.C18.o2.tw	Method	TBLASTX:Wheat
Start	2210	End	3450
GI	none	Score	106
Exons	2210..2290, 2214..2327, 2215..2298, 3032..3190, 3036..3191, 3050..3196, 3094..3195, 3357..3449, 3358..3450		

Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31574	Strand	-
Start	4201	End	5516
Name	OJ990617_01.9924.C18.o2.tm	Method	TBLASTX:Maize
Start	2247	End	3522
GI	none	Score	73
Exons	2247..2333, 2247..2327, 3029..3196, 3032..3199, 3036..3200, 3354..3464, 3355..3522, 3364..3468		

Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31574	Strand	-
Start	4201	End	5516
Name	OJ990617_01.9924.C18.o2.gp	Method	AAT/GAP
Start	4201	End	4663
GI	2442924	Score	560
Exons	4201..4476, 4623..4663		
GI Descrip.	5262763/emb|CAB45911.1| 9.0e-09 (AL080283) putative protein [Arabidopsis thaliana]		

Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31574	Strand	-
Start	4201	End	5516
Name	OJ990617_01.9924.C18.o3.np	Method	AAT/NAP
Start	4330	End	5516
GI	4850399	Score	495
Exons	4330..4476, 4623..4730, 4829..4888, 4922..4960, 5057..5516		
GI Descrip.	(AC007357) F3F19.18 [Arabidopsis thaliana]		

Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31574	Strand	-
Start	4201	End	5516
Name	OJ990617_01.9924.C18.o1.tm	Method	TBLASTX:Maize
Start	4683	End	5484
GI	none	Score	110
Exons	4683..4730, 4823..4930, 4828..4986, 4830..4937, 5053..5286, 5057..5224, 5356..5424, 5437..5484		

Seq. No.	14841	Seq. ID	OJ990617_01.9924.C18
Gene No.	31574	Strand	-
Start	4201	End	5516
Name	OJ990617_01.9924.C18.o3.gs	Method	GENSCAN
Start	4979	End	5484
GI	none	Score	.75
Exons	4979..5431, 5479..5484		

Seq. No.	14842	Seq. ID	OJ990617_01.9924.C19
Gene No.	31575	Strand	+
Start	168	End	641
Name	OJ990617_01.9924.C19.o1.gs	Method	GENSCAN
Start	168	End	641
GI	none	Score	.57
Exons	168..221, 462..641		

Seq. No.	14843	Seq. ID	OJ990617_01.9924.C20
Gene No.	31576	Strand	+
Start	1	End	1272
Name	OJ990617_01.9924.C20.o1.np	Method	AAT/NAP
Start	1	End	1269
GI	4508068	Score	254
Exons	1..23, 206..262, 453..518, 702..773, 1126..1269		
GI Descrip.	(AC005882) 3063 [Arabidopsis thaliana]		

Seq. No.	14843	Seq. ID	OJ990617_01.9924.C20
Gene No.	31576	Strand	+
Start	1	End	1272

Name	OJ990617_01.9924.C20.o1.gs	Method	GENSCAN
Start	158	End	1272
GI	none	Score	.59
Exons	158..262, 702..767, 929..982, 1126..1272		

Seq. No.	14843	Seq. ID	OJ990617_01.9924.C20
Gene No.	31577	Strand	-
Start	3068	End	3859
Name	OJ990617_01.9924.C20.o2.gs	Method	GENSCAN
Start	3068	End	3859
GI	none	Score	.69
Exons	3068..3206, 3816..3859		

Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-
Start	881	End	4532
Name	OJ990617_01.9924.C21.o1.gs	Method	GENSCAN
Start	881	End	4501
GI	none	Score	.43
Exons	881..1183, 1265..1415, 1508..1658, 1849..2059, 2172..2353, 3247..4501		

Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-
Start	881	End	4532
Name	OJ990617_01.9924.C21.o1.np	Method	AAT/NAP
Start	884	End	4532
GI	836954	Score	1296
Exons	884..1183, 1265..1415, 1508..1745, 1849..2059, 2172..2409, 2785..2896, 3254..4532		
GI Descrip.	(U20948) receptor protein kinase [Ipomoea trifida]		

Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-
Start	881	End	4532
Name	OJ990617_01.9924.C21.o1.tc	Method	TBLASTX:Cress
Start	956	End	2312
GI	none	Score	86
Exons	956..1174, 972..1109, 1308..1409, 1319..1411, 1510..1752, 1511..1726, 1850..2059, 1920..2009, 2172..2312		

Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-
Start	881	End	4532
Name	OJ990617_01.9924.C21.o1.ts	Method	TBLASTX:Soybean
Start	957	End	2204
GI	none	Score	115
Exons	957..1172, 962..1195, 1004..1195, 1311..1415, 1319..1441, 1320..1415, 1510..1761, 1511..1747, 1534..1761, 1841..1873, 1877..2059, 1878..2000, 1883..2062, 2172..2204		

Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-
Start	881	End	4532
Name	OJ990617_01.9924.C21.o1.tm	Method	TBLASTX:Maize
Start	971	End	1903
GI	none	Score	89

Exons	971..1183, 972..1187, 1265..1414, 1299..1415, 1505..1747, 1516..1746, 1846..1893, 1850..1903		
Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-
Start	881	End	4532
Name	OJ990617_01.9924.C21.o3.tw	Method	TBLASTX:Wheat
Start	978	End	1183
GI	none	Score	68
Exons	978..1106, 980..1183		
Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-
Start	881	End	4532
Name	OJ990617_01.9924.C21.o1.tw	Method	TBLASTX:Wheat
Start	1265	End	1683
GI	none	Score	61
Exons	1265..1411, 1265..1414, 1284..1415, 1510..1680, 1510..1683, 1511..1681		
Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-
Start	881	End	4532
Name	OJ990617_01.9924.C21.o2.tw	Method	TBLASTX:Wheat
Start	1684	End	2075
GI	none	Score	126
Exons	1684..1752, 1842..2075, 1850..2059		
Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-
Start	881	End	4532
Name	OJ990617_01.9924.C21.o2.tm	Method	TBLASTX:Maize
Start	1904	End	2555
GI	none	Score	153
Exons	1904..2059, 1905..2060, 1906..2061, 1907..2062, 2172..2354, 2172..2354, 2439..2555		
Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-
Start	881	End	4532
Name	OJ990617_01.9924.C21.o4.tm	Method	TBLASTX:Maize
Start	3296	End	3498
GI	none	Score	51
Exons	3296..3349, 3296..3376, 3306..3365, 3338..3493, 3342..3494, 3347..3493, 3364..3498, 3366..3494, 3367..3495		
Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-
Start	881	End	4532
Name	OJ990617_01.9924.C21.o2.tc	Method	TBLASTX:Cress
Start	3560	End	4396
GI	none	Score	65
Exons	3560..3607, 3605..3745, 3861..3971, 3863..3994, 4028..4120, 4029..4076, 4166..4396, 4245..4376		
Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-

Start	881	End	4532
Name	OJ990617_01.9924.C21.o3.tm	Method	TBLASTX:Maize
Start	3851	End	4333
GI	none	Score	41
Exons	3851..3943, 3881..3928, 3935..4333, 3957..4325		

Seq. No.	14844	Seq. ID	OJ990617_01.9924.C21
Gene No.	31578	Strand	-
Start	881	End	4532
Name	OJ990617_01.9924.C21.o2.ts	Method	TBLASTX:Soybean
Start	3947	End	4405
GI	none	Score	88
Exons	3947..4081, 3951..4082, 4076..4183, 4100..4360, 4256..4330, 4340..4405		

Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31579	Strand	+
Start	4207	End	5592
Name	OJ990617_01.9924.C22.o2.gs	Method	GENSCAN
Start	4207	End	5592
GI	none	Score	.95
Exons	4207..4265, 4971..5141, 5511..5592		

Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31580	Strand	-
Start	29	End	3931
Name	OJ990617_01.9924.C22.o1.gs	Method	GENSCAN
Start	29	End	3914
GI	none	Score	.78
Exons	29..387, 744..1016, 1166..1253, 1345..1528, 1683..1893, 1978..2159, 2237..2338, 2660..3914		

Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31580	Strand	-
Start	29	End	3931
Name	OJ990617_01.9924.C22.o1.np	Method	AAT/NAP
Start	717	End	3931
GI	2181190	Score	1300
Exons	717..1016, 1103..1253, 1345..1582, 1683..1893, 1978..2341, 2660..3931		
GI Descrip.	(Y12531) serine/threonine kinase [Brassica oleracea]		

Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o1.tm	Method	TBLASTX:Maize
Start	599	End	6126
GI	none	Score	54
Exons	599..652, 615..650, 708..1031, 708..1028, 1091..1267, 1099..1266, 1110..1277, 5823..5864, 5883..6122, 5911..6126		

Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o1.ts	Method	TBLASTX:Soybean
Start	696	End	6123
GI	none	Score	100

Exons	696..755, 810..1028, 1146..1253, 1149..1250, 1151..1252, 1344..1475, 1345..1437, 1348..1590, 1349..1519, 1368..1589, 1702..1905, 1766..1906, 1978..2169, 1979..2059, 5865..6122, 5911..6123		
Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o1.tc	Method	TBLASTX:Cress
Start	819	End	6122
GI	none	Score	64
Exons	819..1046, 823..942, 1145..1249, 1146..1250, 1348..1560, 1368..1589, 1678..1824, 1702..1896, 1766..1894, 1978..2118, 1979..2059, 5865..6122, 5929..6051		
Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o1.tw	Method	TBLASTX:Wheat
Start	975	End	1520
GI	none	Score	105
Exons	975..1034, 1103..1252, 1131..1253, 1347..1517, 1348..1518, 1368..1520		
Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o2.tm	Method	TBLASTX:Maize
Start	1405	End	1878
GI	none	Score	167
Exons	1405..1584, 1407..1592, 1683..1868, 1684..1878, 1702..1872		
Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o2.tw	Method	TBLASTX:Wheat
Start	1521	End	1896
GI	none	Score	41
Exons	1521..1589, 1522..1590, 1676..1894, 1702..1896		
Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o5.tm	Method	TBLASTX:Maize
Start	1881	End	2328
GI	none	Score	117
Exons	1881..1895, 1967..2083, 1978..2160, 1981..2160, 2232..2327, 2233..2328		
Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o4.tm	Method	TBLASTX:Maize
Start	2701	End	2907
GI	none	Score	62
Exons	2701..2748, 2701..2748, 2705..2773, 2706..2759, 2755..2874, 2756..2872, 2760..2906, 2761..2907		

Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o3.tm	Method	TBLASTX:Maize
Start	3288	End	3721
GI	none	Score	40
Exons	3288..3353, 3292..3351, 3336..3584, 3358..3525, 3378..3563, 3486..3551, 3534..3710, 3586..3666, 3631..3714, 3653..3691, 3655..3708, 3656..3721		

Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o2.tc	Method	TBLASTX:Cress
Start	3297	End	3842
GI	none	Score	44
Exons	3297..3398, 3298..3381, 3444..3554, 3444..3533, 3555..3701, 3619..3702, 3693..3842		

Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o2.ts	Method	TBLASTX:Soybean
Start	3357	End	3854
GI	none	Score	75
Exons	3357..3491, 3361..3489, 3564..3644, 3603..3704, 3665..3706, 3744..3854		

Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o3.gs	Method	GENSCAN
Start	5823	End	6005
GI	none	Score	.5
Exons	5823..6005		

Seq. No.	14845	Seq. ID	OJ990617_01.9924.C22
Gene No.	31581	Strand	-
Start	5823	End	6141
Name	OJ990617_01.9924.C22.o2.np	Method	AAT/NAP
Start	5826	End	6141
GI	5734724	Score	205
Exons	5826..6141		
GI Descrip.	(AC007259) Very similar to receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	14846	Seq. ID	OJ990617_01.9924.C24
Gene No.	31582	Strand	-
Start	1	End	756
Name	OJ990617_01.9924.C24.o1.np	Method	AAT/NAP
Start	1	End	756
GI	6498441	Score	1239
Exons	1..756		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	14846	Seq. ID	OJ990617_01.9924.C24
Gene No.	31582	Strand	-
Start	1	End	756
Name	OJ990617_01.9924.C24.o1.gs	Method	GENSCAN
Start	39	End	556
GI	none	Score	.68
Exons	39..556		

Seq. No.	14846	Seq. ID	OJ990617_01.9924.C24
Gene No.	31582	Strand	-
Start	1	End	756
Name	OJ990617_01.9924.C24.o1.tw	Method	TBLASTX:Wheat
Start	207	End	588
GI	none	Score	169
Exons	207..587, 238..486, 246..587, 532..588		

Seq. No.	14846	Seq. ID	OJ990617_01.9924.C24
Gene No.	31582	Strand	-
Start	1	End	756
Name	OJ990617_01.9924.C24.o1.tm	Method	TBLASTX:Maize
Start	363	End	729
GI	none	Score	186
Exons	363..410, 402..725, 415..729		

Seq. No.	14847	Seq. ID	OJ990617_01.9924.C25
Gene No.	31583	Strand	-
Start	1	End	3119
Name	OJ990617_01.9924.C25.o1.np	Method	AAT/NAP
Start	1	End	3119
GI	6498441	Score	2957
Exons	1..300, 472..768, 960..1386, 1561..1695, 1879..2252, 2316..2785, 3077..3119		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	14847	Seq. ID	OJ990617_01.9924.C25
Gene No.	31583	Strand	-
Start	1	End	3119
Name	OJ990617_01.9924.C25.o4.tw	Method	TBLASTX:Wheat
Start	166	End	600
GI	none	Score	81
Exons	166..315, 167..304, 169..306, 350..535, 376..585, 376..600		

Seq. No.	14847	Seq. ID	OJ990617_01.9924.C25
Gene No.	31583	Strand	-
Start	1	End	3119
Name	OJ990617_01.9924.C25.o1.ts	Method	TBLASTX:Soybean
Start	1224	End	1595
GI	none	Score	89
Exons	1224..1595, 1435..1578		

Seq. No.	14847	Seq. ID	OJ990617_01.9924.C25
Gene No.	31583	Strand	-
Start	1	End	3119
Name	OJ990617_01.9924.C25.o2.tw	Method	TBLASTX:Wheat

Start	1254	End	1674
GI	none	Score	310
Exons	1254..1673, 1261..1674		

Seq. No.	14847	Seq. ID	OJ990617_01.9924.C25
Gene No.	31583	Strand	-
Start	1	End	3119
Name	OJ990617_01.9924.C25.o2.tm	Method	TBLASTX:Maize
Start	1347	End	1731
GI	none	Score	226
Exons	1347..1730, 1366..1731		

Seq. No.	14847	Seq. ID	OJ990617_01.9924.C25
Gene No.	31583	Strand	-
Start	1	End	3119
Name	OJ990617_01.9924.C25.o1.tm	Method	TBLASTX:Maize
Start	1758	End	2114
GI	none	Score	133
Exons	1758..2063, 1758..2114, 1768..2079		

Seq. No.	14847	Seq. ID	OJ990617_01.9924.C25
Gene No.	31583	Strand	-
Start	1	End	3119
Name	OJ990617_01.9924.C25.o1.tw	Method	TBLASTX:Wheat
Start	1782	End	2245
GI	none	Score	219
Exons	1782..2243, 1788..2243, 1789..2244, 1802..2245		

Seq. No.	14847	Seq. ID	OJ990617_01.9924.C25
Gene No.	31583	Strand	-
Start	1	End	3119
Name	OJ990617_01.9924.C25.o2.ts	Method	TBLASTX:Soybean
Start	1839	End	2204
GI	none	Score	111
Exons	1839..1973, 1980..2204		

Seq. No.	14847	Seq. ID	OJ990617_01.9924.C25
Gene No.	31583	Strand	-
Start	1	End	3119
Name	OJ990617_01.9924.C25.o3.tw	Method	TBLASTX:Wheat
Start	2436	End	2895
GI	none	Score	175
Exons	2436..2894, 2440..2700, 2758..2895		

Seq. No.	14848	Seq. ID	OJ990617_01.9924.C26
Gene No.	31584	Strand	+
Start	189	End	496
Name	OJ990617_01.9924.C26.o1.gs	Method	GENSCAN
Start	189	End	496
GI	none	Score	.84
Exons	189..402, 435..496		

Seq. No.	14848	Seq. ID	OJ990617_01.9924.C26
Gene No.	31585	Strand	-
Start	223	End	8746
Name	OJ990617_01.9924.C26.o1.np	Method	AAT/NAP
Start	223	End	3357

GI	5732928	Score	429
Exons	223..368, 1325..1486, 1604..1777, 1952..2123, 2252..2455, 2632..2798, 3240..3357		
GI Descrip.	(AF169801) dihydroflavonol-4-reductase [Lilium hybrid cultivar VII cv. 'Acapulco']		

Seq. No.	14848	Seq. ID	OJ990617_01.9924.C26
Gene No.	31585	Strand	-
Start	223	End	8746
Name	OJ990617_01.9924.C26.o2.np	Method	AAT/NAP
Start	1299	End	3381
GI	2960364	Score	281
Exons	1299..1482, 1594..1777, 1955..2123, 2261..2451, 2640..2788, 3233..3381		
GI Descrip.	(AJ224986) cinnamoyl CoA reductase [Populus balsamifera subsp. trichocarpa]		

Seq. No.	14848	Seq. ID	OJ990617_01.9924.C26
Gene No.	31585	Strand	-
Start	223	End	8746
Name	OJ990617_01.9924.C26.o2.gs	Method	GENSCAN
Start	1332	End	8621
GI	none	Score	.89
Exons	1332..1479, 1594..1807, 1964..2123, 2252..2455, 2632..2798, 3240..3425, 5393..5517, 6199..6312, 6409..6646, 6948..7107, 7654..7854, 7968..8134, 8501..8621		

Seq. No.	14848	Seq. ID	OJ990617_01.9924.C26
Gene No.	31585	Strand	-
Start	223	End	8746
Name	OJ990617_01.9924.C26.o2.tm	Method	TBLASTX:Maize
Start	1338	End	6456
GI	none	Score	136
Exons	1338..1460, 1339..1461, 6171..6293, 6172..6294, 6177..6314, 6179..6298, 6404..6439, 6409..6456, 6409..6453, 6411..6455		

Seq. No.	14848	Seq. ID	OJ990617_01.9924.C26
Gene No.	31585	Strand	-
Start	223	End	8746
Name	OJ990617_01.9924.C26.o1.gp	Method	AAT/GAP
Start	1343	End	1701
GI	2797550	Score	444
Exons	1343..1479, 1594..1701		

Seq. No.	14848	Seq. ID	OJ990617_01.9924.C26
Gene No.	31585	Strand	-
Start	223	End	8746
Name	OJ990617_01.9924.C26.o1.ts	Method	TBLASTX:Soybean
Start	1401	End	6614
GI	none	Score	54
Exons	1401..1478, 1402..1476, 1593..1766, 1597..1764, 6234..6311, 6411..6500, 6549..6614		

Seq. No.	14848	Seq. ID	OJ990617_01.9924.C26
Gene No.	31585	Strand	-
Start	223	End	8746
Name	OJ990617_01.9924.C26.o1.tc	Method	TBLASTX:Cress

Start	2327	End	8630
GI	none	Score	84
Exons	2327..2458, 2632..2799, 3241..3315, 3304..3360, 7726..7857, 7968..8123, 8502..8630		

Seq. No.	14848	Seq. ID	OJ990617_01.9924.C26
Gene No.	31585	Strand	-
Start	223	End	8746
Name	OJ990617_01.9924.C26.o1.tm	Method	TBLASTX:Maize
Start	2330	End	8093
GI	none	Score	156
Exons	2330..2458, 2334..2456, 2356..2457, 2632..2754, 2632..2757, 7717..7857, 7736..7855, 7968..8093, 7968..8093		

Seq. No.	14848	Seq. ID	OJ990617_01.9924.C26
Gene No.	31585	Strand	-
Start	223	End	8746
Name	OJ990617_01.9924.C26.o1.tw	Method	TBLASTX:Wheat
Start	2340	End	8589
GI	none	Score	109
Exons	2340..2447, 2345..2458, 2345..2458, 2451..2489, 2635..2799, 2650..2799, 3235..3327, 3236..3328, 7742..7837, 7742..7825, 7744..7857, 7960..8142, 7976..8134, 7986..8165, 7992..8135, 8497..8583, 8502..8585, 8502..8588, 8503..8589		

Seq. No.	14848	Seq. ID	OJ990617_01.9924.C26
Gene No.	31585	Strand	-
Start	223	End	8746
Name	OJ990617_01.9924.C26.o3.np	Method	AAT/NAP
Start	6159	End	8633
GI	6689826	Score	643
Exons	6159..6312, 6412..6646, 6948..7107, 7654..7854, 7968..8134, 8501..8633		
GI Descrip.	(AF092912) DFR-like protein [Arabidopsis thaliana]		

Seq. No.	14848	Seq. ID	OJ990617_01.9924.C26
Gene No.	31585	Strand	-
Start	223	End	8746
Name	OJ990617_01.9924.C26.o2.gp	Method	AAT/GAP
Start	7753	End	8746
GI	17023_1.R1084	Score	861
Exons	7753..7854, 7968..8134, 8501..8746		
GI Descrip.	'4508073/gb|AAD21417.1| 1.0e-15 (AC005882) 43220 [Arabidopsis thaliana]'		

Seq. No.	14849	Seq. ID	OJ990617_01.9924.C27
Gene No.	31586	Strand	+
Start	1	End	303
Name	OJ990617_01.9924.C27.o1.np	Method	AAT/NAP
Start	1	End	303
GI	6815062	Score	96
Exons	1..303		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		

Seq. No.	14849	Seq. ID	OJ990617_01.9924.C27

Gene No.	31587	Strand	-
Start	61	End	185
Name	OJ990617_01.9924.C27.o1.gs	Method	GENSCAN
Start	61	End	185
GI	none	Score	.88
Exons	61..185		

Seq. No.	14850	Seq. ID	OJ990617_01.9924.C28
Gene No.	31588	Strand	+
Start	96	End	175
Name	OJ990617_01.9924.C28.o1.gs	Method	GENSCAN
Start	96	End	175
GI	none	Score	.81
Exons	96..175		

Seq. No.	14851	Seq. ID	OJ990617_01.9924.C29
Gene No.	31589	Strand	-
Start	129	End	186
Name	OJ990617_01.9924.C29.o1.gs	Method	GENSCAN
Start	129	End	186
GI	none	Score	.8
Exons	129..186		

Seq. No.	14852	Seq. ID	OJ990617_01.9924.C30
Gene No.	31590	Strand	+
Start	1	End	816
Name	OJ990617_01.9924.C30.o1.np	Method	AAT/NAP
Start	1	End	537
GI	5441880	Score	571
Exons	1..187, 303..537		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14852	Seq. ID	OJ990617_01.9924.C30
Gene No.	31590	Strand	+
Start	1	End	816
Name	OJ990617_01.9924.C30.o1.gs	Method	GENSCAN
Start	56	End	816
GI	none	Score	.94
Exons	56..187, 251..298, 303..505, 680..816		

Seq. No.	14852	Seq. ID	OJ990617_01.9924.C30
Gene No.	31591	Strand	+
Start	1608	End	1708
Name	OJ990617_01.9924.C30.o3.np	Method	AAT/NAP
Start	1608	End	1708
GI	5777617	Score	80
Exons	1608..1708		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	14852	Seq. ID	OJ990617_01.9924.C30
Gene No.	31592	Strand	+
Start	2197	End	2350
Name	OJ990617_01.9924.C30.o4.np	Method	AAT/NAP
Start	2197	End	2350
GI	3894187	Score	99

Exons	2197..2350		
GI Descrip.	(AC005662) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	14852	Seq. ID	OJ990617_01.9924.C30
Gene No.	31593	Strand	+
Start	3268	End	3743
Name	OJ990617_01.9924.C30.o3.gs	Method	GENSCAN
Start	3268	End	3743
GI	none	Score	.51
Exons	3268..3499, 3526..3743		
Seq. No.	14852	Seq. ID	OJ990617_01.9924.C30
Gene No.	31594	Strand	+
Start	4976	End	7992
Name	OJ990617_01.9924.C30.o5.np	Method	AAT/NAP
Start	4964	End	7992
GI	6689826	Score	570
Exons	4964..5098, 5439..5605, 5859..6059, 6924..7083, 7493..7727, 7831..7992		
GI Descrip.	(AF092912) DFR-like protein [Arabidopsis thaliana]		
Seq. No.	14852	Seq. ID	OJ990617_01.9924.C30
Gene No.	31594	Strand	+
Start	4976	End	7992
Name	OJ990617_01.9924.C30.o4.gs	Method	GENSCAN
Start	4976	End	7952
GI	none	Score	.76
Exons	4976..5098, 5468..5605, 5859..6059, 6924..7083, 7493..7730, 7831..7952		
Seq. No.	14852	Seq. ID	OJ990617_01.9924.C30
Gene No.	31595	Strand	-
Start	1037	End	1454
Name	OJ990617_01.9924.C30.o1.gp	Method	AAT/GAP
Start	1037	End	1440
GI	7406_1.R1084	Score	660
Exons	1037..1440		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		
Seq. No.	14852	Seq. ID	OJ990617_01.9924.C30
Gene No.	31595	Strand	-
Start	1037	End	1454
Name	OJ990617_01.9924.C30.o2.np	Method	AAT/NAP
Start	1326	End	1454
GI	6721543	Score	90
Exons	1326..1454		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	14852	Seq. ID	OJ990617_01.9924.C30
Gene No.	31596	Strand	
Start	4963	End	5936
Name	OJ990617_01.9924.C30.o1.tm	Method	TBLASTX:Maize
Start	4963	End	5936
GI	none	Score	95
Exons	4963..5046, 4964..5050, 5050..5106, 5052..5102, 5431..5649, 5438..5605, 5856..5936		

Seq. No.	14853	Seq. ID	OJ990617_01.9924.C31
Gene No.	31597	Strand	+
Start	80	End	630
Name	OJ990617_01.9924.C31.o1.gs	Method	GENSCAN
Start	80	End	630
GI	none	Score	.99
Exons	80..146, 164..630		

Seq. No.	14853	Seq. ID	OJ990617_01.9924.C31
Gene No.	31597	Strand	+
Start	80	End	630
Name	OJ990617_01.9924.C31.o1.np	Method	AAT/NAP
Start	114	End	630
GI	2347189	Score	155
Exons	114..630		
GI Descrip.	(AC002338) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14853	Seq. ID	OJ990617_01.9924.C31
Gene No.	31597	Strand	+
Start	80	End	630
Name	OJ990617_01.9924.C31.o1.tm	Method	TBLASTX:Maize
Start	193	End	399
GI	none	Score	109
Exons	193..288, 194..268, 201..287, 289..399, 304..354, 312..386		

Seq. No.	14854	Seq. ID	OJ990617_01.9924.C32
Gene No.	31598	Strand	+
Start	1	End	1235
Name	OJ990617_01.9924.C32.o1.np	Method	AAT/NAP
Start	1	End	1235
GI	5803259	Score	1700
Exons	1..656, 754..1235		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	14854	Seq. ID	OJ990617_01.9924.C32
Gene No.	31598	Strand	+
Start	1	End	1235
Name	OJ990617_01.9924.C32.o1.gs	Method	GENSCAN
Start	40	End	1166
GI	none	Score	.87
Exons	40..656, 754..1166		

Seq. No.	14855	Seq. ID	OJ990617_01.9924.C33
Gene No.	31599	Strand	+
Start	1	End	1198
Name	OJ990617_01.9924.C33.o1.np	Method	AAT/NAP
Start	1	End	1195
GI	5803259	Score	1660
Exons	1..1195		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	14855	Seq. ID	OJ990617_01.9924.C33
Gene No.	31599	Strand	+
Start	1	End	1198
Name	OJ990617_01.9924.C33.o1.gs	Method	GENSCAN
Start	89	End	1198

GI	none	Score	.63
Exons	89..1198		

Seq. No.	14856	Seq. ID	OJ990617_01.9924.C34
Gene No.	31600	Strand	-
Start	1	End	669
Name	OJ990617_01.9924.C34.o1.np	Method	AAT/NAP
Start	1	End	669
GI	5441880	Score	227
Exons	1..151, 637..669		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14857	Seq. ID	OJ990617_01.9924.C35
Gene No.	31601	Strand	-
Start	29	End	1275
Name	OJ990617_01.9924.C35.o1.gs	Method	GENSCAN
Start	29	End	885
GI	none	Score	.7
Exons	29..885		

Seq. No.	14857	Seq. ID	OJ990617_01.9924.C35
Gene No.	31601	Strand	-
Start	29	End	1275
Name	OJ990617_01.9924.C35.o1.tw	Method	TBLASTX:Wheat
Start	124	End	504
GI	none	Score	79
Exons	124..300, 154..300, 185..304, 298..495, 310..504		

Seq. No.	14857	Seq. ID	OJ990617_01.9924.C35
Gene No.	31601	Strand	-
Start	29	End	1275
Name	OJ990617_01.9924.C35.o1.tm	Method	TBLASTX:Maize
Start	202	End	798
GI	none	Score	145
Exons	202..273, 337..636, 398..619, 670..798, 692..790		

Seq. No.	14857	Seq. ID	OJ990617_01.9924.C35
Gene No.	31601	Strand	-
Start	29	End	1275
Name	OJ990617_01.9924.C35.o1.gp	Method	AAT/GAP
Start	324	End	755
GI	5701669	Score	833
Exons	324..755		
GI Descrip.	5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14857	Seq. ID	OJ990617_01.9924.C35
Gene No.	31601	Strand	-
Start	29	End	1275
Name	OJ990617_01.9924.C35.o1.np	Method	AAT/NAP
Start	354	End	1275
GI	5441880	Score	1572
Exons	354..1275		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the		

predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No.	14858	Seq. ID	OJ990617_01.9924.C36
Gene No.	31602	Strand	+
Start	445	End	609
Name	OJ990617_01.9924.C36.o1.gp	Method	AAT/GAP
Start	445	End	609
GI	7406_1.R1084	Score	225
Exons	445..609		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	14858	Seq. ID	OJ990617_01.9924.C36
Gene No.	31603	Strand	+
Start	531	End	600
Name	OJ990617_01.9924.C36.o1.gs	Method	GENSCAN
Start	531	End	600
GI	none	Score	.78
Exons	531..600		

Seq. No.	14858	Seq. ID	OJ990617_01.9924.C36
Gene No.	31604	Strand	-
Start	1	End	623
Name	OJ990617_01.9924.C36.o1.np	Method	AAT/NAP
Start	1	End	623
GI	6721543	Score	87
Exons	1..51, 494..623		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	14859	Seq. ID	OJ990617_01.9924.C37
Gene No.	31605	Strand	+
Start	6411	End	6482
Name	OJ990617_01.9924.C37.o3.gp	Method	AAT/GAP
Start	6411	End	6482
GI	uC-osf1M202097d10b1	Score	101
Exons	6411..6482		
GI Descrip.	'4062935/dbj|AB003495.1|AB003495 3.0e-14 Oryza sativa DNA for dihydroflavonol 4-reductase, complete cds'		

Seq. No.	14859	Seq. ID	OJ990617_01.9924.C37
Gene No.	31606	Strand	-
Start	492	End	3348
Name	OJ990617_01.9924.C37.o1.gs	Method	GENSCAN
Start	492	End	3239
GI	none	Score	.86
Exons	492..652, 654..844, 1477..1535, 1657..1791, 1867..2086, 2200..2359, 2457..2666, 2750..2925, 3116..3239		

Seq. No.	14859	Seq. ID	OJ990617_01.9924.C37
Gene No.	31606	Strand	-
Start	492	End	3348
Name	OJ990617_01.9924.C37.o1.gp	Method	AAT/GAP
Start	1460	End	2108
GI	33857_1.R1084	Score	901
Exons	1460..1791, 1867..2108		
GI Descrip.	'4508073/gb|AAD21417.1| 5.0e-22 (AC005882) 43220 [Arabidopsis		

thaliana]'

Seq. No.	14859	Seq. ID	OJ990617_01.9924.C37
Gene No.	31606	Strand	-
Start	492	End	3348
Name	OJ990617_01.9924.C37.o1.np	Method	AAT/NAP
Start	1635	End	3248
GI	6689826	Score	561
Exons	1635..1799, 1881..2075, 2189..2359, 2463..2666, 2759..2925, 3116..3248		
GI Descrip.	(AF092912) DFR-like protein [Arabidopsis thaliana]		

Seq. No.	14859	Seq. ID	OJ990617_01.9924.C37
Gene No.	31606	Strand	-
Start	492	End	3348
Name	OJ990617_01.9924.C37.o2.gp	Method	AAT/GAP
Start	2801	End	3348
GI	uC-osflcyp017f04b1	Score	612
Exons	2801..2925, 3116..3348		
GI Descrip.	'4508073/gb|AAD21417.1| 2.0e-17 (AC005882) 43220 [Arabidopsis thaliana]'		

Seq. No.	14859	Seq. ID	OJ990617_01.9924.C37
Gene No.	31607	Strand	-
Start	4928	End	7489
Name	OJ990617_01.9924.C37.o1.ts	Method	TBLASTX:Soybean
Start	1710	End	5342
GI	none	Score	97
Exons	1710..1775, 1878..2033, 1882..2034, 5000..5065, 5175..5267, 5265..5342		

Seq. No.	14859	Seq. ID	OJ990617_01.9924.C37
Gene No.	31607	Strand	-
Start	4928	End	7489
Name	OJ990617_01.9924.C37.o2.tm	Method	TBLASTX:Maize
Start	1914	End	5909
GI	none	Score	75
Exons	1914..2033, 1915..2022, 1935..2048, 1945..2091, 2037..2090, 2192..2332, 2193..2330, 5212..5256, 5231..5257, 5271..5363, 5275..5361, 5772..5909, 5773..5877		

Seq. No.	14859	Seq. ID	OJ990617_01.9924.C37
Gene No.	31607	Strand	-
Start	4928	End	7489
Name	OJ990617_01.9924.C37.o2.ts	Method	TBLASTX:Soybean
Start	2192	End	7488
GI	none	Score	80
Exons	2192..2359, 2466..2525, 2556..2669, 2783..2875, 3123..3212, 3124..3216, 5751..5936, 6038..6097, 6122..6250, 6995..7111, 7435..7488		

Seq. No.	14859	Seq. ID	OJ990617_01.9924.C37
Gene No.	31607	Strand	-
Start	4928	End	7489
Name	OJ990617_01.9924.C37.o1.tm	Method	TBLASTX:Maize
Start	2546	End	7132
GI	none	Score	132

Exons	2546..2668, 2553..2669, 2583..2669, 2747..2884, 2783..2884, 2784..2897, 2879..2908, 2880..2909, 6107..6250, 6108..6248, 6110..6277, 6989..7117, 6995..7132		

Seq. No.	14859	Seq. ID	OJ990617_01.9924.C37
Gene No.	31607	Strand	-
Start	4928	End	7489
Name	OJ990617_01.9924.C37.o1.tw	Method	TBLASTX:Wheat
Start	2551	End	7489
GI	none	Score	108
Exons	2551..2640, 2553..2669, 2583..2669, 2783..2926, 2783..2926, 3111..3203, 3112..3204, 6137..6250, 6138..6224, 6998..7165, 7013..7162, 7426..7488, 7427..7489		

Seq. No.	14859	Seq. ID	OJ990617_01.9924.C37
Gene No.	31607	Strand	-
Start	4928	End	7489
Name	OJ990617_01.9924.C37.o1.tc	Method	TBLASTX:Cress
Start	2556	End	7488
GI	none	Score	94
Exons	2556..2669, 2771..2926, 3117..3224, 6119..6250, 6989..7213, 6995..7165, 7432..7488		

Seq. No.	14859	Seq. ID	OJ990617_01.9924.C37
Gene No.	31607	Strand	-
Start	4928	End	7489
Name	OJ990617_01.9924.C37.o2.gs	Method	GENSCAN
Start	4928	End	7479
GI	none	Score	.98
Exons	4928..5081, 5164..5383, 5777..5936, 6029..6247, 6995..7161, 7431..7479		

Seq. No.	14860	Seq. ID	OJ990617_01.9924.C39
Gene No.	31608	Strand	-
Start	1	End	475
Name	OJ990617_01.9924.C39.o1.np	Method	AAT/NAP
Start	1	End	475
GI	3056594	Score	190
Exons	1..100, 128..475		
GI Descrip.	(AC004255) T1F9.15 [Arabidopsis thaliana]		

Seq. No.	14860	Seq. ID	OJ990617_01.9924.C39
Gene No.	31608	Strand	-
Start	1	End	475
Name	OJ990617_01.9924.C39.o1.gs	Method	GENSCAN
Start	9	End	431
GI	none	Score	.87
Exons	9..431		

Seq. No.	14860	Seq. ID	OJ990617_01.9924.C39
Gene No.	31608	Strand	-
Start	1	End	475
Name	OJ990617_01.9924.C39.o1.tm	Method	TBLASTX:Maize
Start	55	End	275
GI	none	Score	59
Exons	55..129, 70..114, 105..260, 116..259, 118..273, 132..275		

Seq. No.	14861	Seq. ID	OJ990617_01.9924.C41
Gene No.	31609	Strand	-
Start	1	End	1243
Name	OJ990617_01.9924.C41.o1.np	Method	AAT/NAP
Start	1	End	1243
GI	6721562	Score	1888
Exons	1..1243		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	14861	Seq. ID	OJ990617_01.9924.C41
Gene No.	31609	Strand	-
Start	1	End	1243
Name	OJ990617_01.9924.C41.o1.gs	Method	GENSCAN
Start	67	End	1243
GI	none	Score	.93
Exons	67..1243		

Seq. No.	14861	Seq. ID	OJ990617_01.9924.C41
Gene No.	31609	Strand	-
Start	1	End	1243
Name	OJ990617_01.9924.C41.o1.tw	Method	TBLASTX:Wheat
Start	197	End	589
GI	none	Score	95
Exons	197..454, 231..470, 437..535, 438..530, 542..589		

Seq. No.	14861	Seq. ID	OJ990617_01.9924.C41
Gene No.	31609	Strand	-
Start	1	End	1243
Name	OJ990617_01.9924.C41.o1.tm	Method	TBLASTX:Maize
Start	299	End	584
GI	none	Score	108
Exons	299..547, 300..584		

Seq. No.	14862	Seq. ID	OJ990617_01.9924.C42
Gene No.	31610	Strand	+
Start	1	End	366
Name	OJ990617_01.9924.C42.o1.np	Method	AAT/NAP
Start	1	End	366
GI	134534	Score	176
Exons	1..366		
GI Descrip.	S-LOCUS-SPECIFIC GLYCOPROTEIN S6 PRECURSOR (SLSG-6) gi|81703|pir||A27827 S-locus-specific glycoprotein S6 precursor - wild cabbage gi|17901|emb|CAA68375| (Y00268) SLSG (AA -31 to 405) [Brassica oleracea] gi|225542|prf||1305350A protein,S locus allele [Brassica oleracea var. botrytis]		

Seq. No.	14862	Seq. ID	OJ990617_01.9924.C42
Gene No.	31610	Strand	+
Start	1	End	366
Name	OJ990617_01.9924.C42.o1.gs	Method	GENSCAN
Start	68	End	269
GI	none	Score	.54
Exons	68..269		

Seq. No.	14862	Seq. ID	OJ990617_01.9924.C42
Gene No.	31610	Strand	+
Start	1	End	366
Name	OJ990617_01.9924.C42.o1.tm	Method	TBLASTX:Maize
Start	106	End	359
GI	none	Score	181
Exons	106..351, 107..358, 120..359		

Seq. No.	14863	Seq. ID	OJ990617_03.9922.C2
Gene No.	31611	Strand	-
Start	132	End	376
Name	OJ990617_03.9922.C2.o1.gs	Method	GENSCAN
Start	132	End	376
GI	none	Score	.57
Exons	132..220, 307..376		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31612	Strand	+
Start	605	End	6010
Name	OJ990617_03.9922.C3.o1.gs	Method	GENSCAN
Start	605	End	6010
GI	none	Score	.46
Exons	605..649, 3704..3796, 4854..4931, 5030..5145, 5583..5747, 5902..6010		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31612	Strand	+
Start	605	End	6010
Name	OJ990617_03.9922.C3.o1.gp	Method	AAT/GAP
Start	1417	End	1543
GI	uC-osflcyp091g05b1	Score	222
Exons	1417..1543		
GI Descrip.	'4521194/dbj|AB013613.1|AB013613 7.0e-13 Oryza sativa DNA, centromere sequence RCB11'		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31612	Strand	+
Start	605	End	6010
Name	OJ990617_03.9922.C3.o2.gp	Method	AAT/GAP
Start	2119	End	2915
GI	uC-osflcyp091g05a1	Score	808
Exons	2119..2263, 2647..2915		
GI Descrip.	'4521194/dbj|AB013613.1|AB013613 7.0e-13 Oryza sativa DNA, centromere sequence RCB11'		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31612	Strand	+
Start	605	End	6010
Name	OJ990617_03:9922.C3.o4.gp	Method	AAT/GAP
Start	5322	End	5375
GI	none	Score	63
Exons	5322..5375		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31613	Strand	+
Start	12186	End	12469

Name	OJ990617_03.9922.C3.o7.gp	Method	AAT/GAP
Start	12186	End	12469
GI	uC-osroM202017a05a1	Score	568
Exons	12186..12469		
GI Descrip.	'6041846/gb|AAF02155.1|AC009853_15 1.0e-09 (AC009853) unknown protein [Arabidopsis thaliana]'		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31614	Strand	+
Start	25129	End	27598
Name	OJ990617_03.9922.C3.o5.np	Method	AAT/NAP
Start	25129	End	27598
GI	4680186	Score	244
Exons	25129..25288, 25792..25946, 27577..27598		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31615	Strand	+
Start	29891	End	30000
Name	OJ990617_03.9922.C3.o10.gp	Method	AAT/GAP
Start	29891	End	30000
GI	69953_1.R1084	Score	103
Exons	29891..30000		
GI Descrip.	'5295936/dbj|AB026295.2|AB026295 7.0e-34 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31616	Strand	-
Start	3820	End	4120
Name	OJ990617_03.9922.C3.o1.np	Method	AAT/NAP
Start	3820	End	4120
GI	13203	Score	475
Exons	3820..4120		
GI Descrip.	(X53710) apocytochrome b [Oryza sativa]		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31617	Strand	-
Start	6022	End	6655
Name	OJ990617_03.9922.C3.o2.np	Method	AAT/NAP
Start	6022	End	6655
GI	4234854	Score	718
Exons	6022..6655		
GI Descrip.	(AF082134) pol polyprotein [Zea mays]		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31618	Strand	-
Start	7530	End	21976
Name	OJ990617_03.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	2178	End	3116
GI	none	Score	161
Exons	2178..2342, 2204..2341, 2204..2347, 2387..2443, 2388..2480, 2540..2614, 2557..2607, 2557..2655, 2558..2656, 2712..2834, 2713..2787, 2787..2831, 2907..2927, 2908..2931, 3012..3116		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31618	Strand	-
Start	7530	End	21976

Name	OJ990617_03.9922.C3.o2.tm	Method	TBLASTX:Maize
Start	6061	End	6641
GI	none	Score	44
Exons	6061..6258, 6301..6477, 6460..6564, 6585..6641		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31618	Strand	-
Start	7530	End	21976
Name	OJ990617_03.9922.C3.o1.tw	Method	TBLASTX:Wheat
Start	6073	End	6472
GI	none	Score	78
Exons	6073..6468, 6229..6435, 6239..6472		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31618	Strand	-
Start	7530	End	21976
Name	OJ990617_03.9922.C3.o1.ts	Method	TBLASTX:Soybean
Start	6076	End	6641
GI	none	Score	68
Exons	6076..6258, 6268..6447, 6460..6564, 6567..6641		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31618	Strand	-
Start	7530	End	21976
Name	OJ990617_03.9922.C3.o3.np	Method	AAT/NAP
Start	6957	End	9617
GI	6630697	Score	92
Exons	6957..7001, 9014..9104, 9472..9617		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa]		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31618	Strand	-
Start	7530	End	21976
Name	OJ990617_03.9922.C3.o5.gp	Method	AAT/GAP
Start	7335	End	8809
GI	none	Score	832
Exons	7335..7660, 8482..8547, 8740..8809		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31618	Strand	-
Start	7530	End	21976
Name	OJ990617_03.9922.C3.o2.gs	Method	GENSCAN
Start	7530	End	21976
GI	none	Score	.74
Exons	7530..7660, 7692..7774, 8740..9010, 9138..9340, 9867..9937, 11836..12127, 12822..12904, 13220..13378, 16908..16996, 17128..17428, 18092..18586, 18989..19149, 20191..20399, 21957..21976		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31618	Strand	-
Start	7530	End	21976
Name	OJ990617_03.9922.C3.o6.gp	Method	AAT/GAP
Start	8817	End	9361
GI	none	Score	876
Exons	8817..8942, 9016..9361		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31618	Strand	-
Start	7530	End	21976
Name	OJ990617_03.9922.C3.o8.gp	Method	AAT/GAP
Start	12596	End	14486
GI	none	Score	1342
Exons	12596..12904, 13077..13380, 14192..14246, 14324..14367, 14456..14486		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31618	Strand	-
Start	7530	End	21976
Name	OJ990617_03.9922.C3.o9.gp	Method	AAT/GAP
Start	18121	End	20389
GI	none	Score	1726
Exons	18121..18586, 18836..18910, 18989..19149, 20191..20389		

Seq. No.	14864	Seq. ID	OJ990617_03.9922.C3
Gene No.	31618	Strand	-
Start	7530	End	21976
Name	OJ990617_03.9922.C3.o4.np	Method	AAT/NAP
Start	18200	End	20972
GI	1708618	Score	41
Exons	18200..18366, 20945..20972		
GI Descrip.	NUCLEAR FACTOR NF-KAPPA-B P100 SUBUNIT [CONTAINS: NUCLEAR FACTOR NF-KAPPA-B P52 SUBUNIT] gi|407031 (U00111) NF-kB p52/p100 [Gallus gallus] gi|738738|prf||2001399A NF-kappa B p100 protein [Gallus gallus]		

Seq. No.	14865	Seq. ID	OJ990617_03.9922.C4
Gene No.	31619	Strand	-
Start	665	End	2182
Name	OJ990617_03.9922.C4.o1.gs	Method	GENSCAN
Start	665	End	2182
GI	none	Score	.54
Exons	665..1108, 1172..1400, 1675..1881, 1920..2182		

Seq. No.	14865	Seq. ID	OJ990617_03.9922.C4
Gene No.	31619	Strand	-
Start	665	End	2182
Name	OJ990617_03.9922.C4.o1.np	Method	AAT/NAP
Start	671	End	1476
GI	5922636	Score	308
Exons	671..906, 1401..1476		
GI Descrip.	(AP000492) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016869|dbj|BAA85212.1| (AP000570) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14866	Seq. ID	OJ990617_03.9922.C5
Gene No.	31620	Strand	-
Start	15	End	152
Name	OJ990617_03.9922.C5.o1.gs	Method	GENSCAN
Start	15	End	152
GI	none	Score	.9
Exons	15..152		

Seq. No.	14867	Seq. ID	OJ990617_03.9922.C6
Gene No.	31621	Strand	-
Start	521	End	604
Name	OJ990617_03.9922.C6.o1.gs	Method	GENSCAN
Start	521	End	604
GI	none	Score	.82
Exons	521..604		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430
Name	OJ990617_03.9922.C7.o1.gs	Method	GENSCAN
Start	142	End	2855
GI	none	Score	.47
Exons	142..354, 410..665, 678..844, 932..1195, 1344..2855		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430
Name	OJ990617_03.9922.C7.o1.np	Method	AAT/NAP
Start	934	End	5430
GI	6498441	Score	4822
Exons	934..1998, 2329..2792, 2856..3229, 3413..3547, 3722..4092, 4289..4639, 4809..5430		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430
Name	OJ990617_03.9922.C7.o5.tw	Method	TBLASTX:Wheat
Start	1082	End	1475
GI	none	Score	58
Exons	1082..1129, 1136..1198, 1141..1191, 1142..1234, 1167..1235, 1202..1441, 1218..1475		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430
Name	OJ990617_03.9922.C7.o4.tw	Method	TBLASTX:Wheat
Start	1483	End	4943
GI	none	Score	166
Exons	1483..1536, 4511..4684, 4576..4671, 4691..4747, 4692..4733, 4794..4943, 4803..4940, 4805..4942		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430
Name	OJ990617_03.9922.C7.o3.tw	Method	TBLASTX:Wheat
Start	2213	End	2696
GI	none	Score	414
Exons	2213..2386, 2214..2696, 2408..2668		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+

Start	142	End	5430
Name	OJ990617_03.9922.C7.o1.tw	Method	TBLASTX:Wheat
Start	2864	End	3326
GI	none	Score	588
Exons	2864..3325, 2865..3326		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430
Name	OJ990617_03.9922.C7.o2.ts	Method	TBLASTX:Soybean
Start	2904	End	3269
GI	none	Score	117
Exons	2904..3128, 3135..3269		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430
Name	OJ990617_03.9922.C7.o2.gs	Method	GENSCAN
Start	2919	End	5417
GI	none	Score	.8
Exons	2919..4017, 4066..4229, 4289..4573, 4842..5417		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430
Name	OJ990617_03.9922.C7.o1.tm	Method	TBLASTX:Maize
Start	2994	End	3350
GI	none	Score	392
Exons	2994..3350, 3029..3340, 3045..3350		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430
Name	OJ990617_03.9922.C7.o2.tm	Method	TBLASTX:Maize
Start	3378	End	3761
GI	none	Score	356
Exons	3378..3761, 3416..3742		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430
Name	OJ990617_03.9922.C7.o2.tw	Method	TBLASTX:Wheat
Start	3434	End	3854
GI	none	Score	483
Exons	3434..3847, 3435..3854		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430
Name	OJ990617_03.9922.C7.o1.ts	Method	TBLASTX:Soybean
Start	3513	End	3884
GI	none	Score	275
Exons	3513..3884, 3530..3673		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430

Name	OJ990617_03.9922.C7.o3.ts	Method	TBLASTX:Soybean
Start	4671	End	5198
GI	5666795	Score	44
Exons	4671..4730, 4806..4943, 4998..5198		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	14868	Seq. ID	OJ990617_03.9922.C7
Gene No.	31622	Strand	+
Start	142	End	5430
Name	OJ990617_03.9922.C7.o6.tw	Method	TBLASTX:Wheat
Start	4946	End	5258
GI	none	Score	192
Exons	4946..5044, 4998..5258		

Seq. No.	14869	Seq. ID	OJ990617_03.9922.C8
Gene No.	31623	Strand	+
Start	139	End	474
Name	OJ990617_03.9922.C8.o1.gs	Method	GENSCAN
Start	139	End	474
GI	none	Score	.57
Exons	139..474		

Seq. No.	14869	Seq. ID	OJ990617_03.9922.C8
Gene No.	31624	Strand	-
Start	1090	End	2693
Name	OJ990617_03.9922.C8.o1.tm	Method	TBLASTX:Maize
Start	331	End	471
GI	none	Score	183
Exons	331..471, 336..470		

Seq. No.	14869	Seq. ID	OJ990617_03.9922.C8
Gene No.	31624	Strand	-
Start	1090	End	2693
Name	OJ990617_03.9922.C8.o2.gs	Method	GENSCAN
Start	1090	End	2025
GI	none	Score	1
Exons	1090..2025		

Seq. No.	14869	Seq. ID	OJ990617_03.9922.C8
Gene No.	31624	Strand	-
Start	1090	End	2693
Name	OJ990617_03.9922.C8.o1.np	Method	AAT/NAP
Start	1093	End	2693
GI	5803259	Score	1918
Exons	1093..2693		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	14869	Seq. ID	OJ990617_03.9922.C8
Gene No.	31624	Strand	-
Start	1090	End	2693
Name	OJ990617_03.9922.C8.o3.gs	Method	GENSCAN
Start	2127	End	2588
GI	none	Score	.99
Exons	2127..2588		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-

Start	275	End	7625
Name	OJ990617_03.9922.C9.o7.tm	Method	TBLASTX:Maize
Start	270	End	514
GI	none	Score	41
Exons	270..332, 302..514, 393..482		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o1.gs	Method	GENSCAN
Start	275	End	7625
GI	none	Score	.95
Exons	275..4849, 4997..5042, 7426..7625		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o1.np	Method	AAT/NAP
Start	278	End	4852
GI	4680179	Score	6597
Exons	278..4852		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o6.tw	Method	TBLASTX:Wheat
Start	323	End	656
GI	none	Score	109
Exons	323..655, 387..656		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o1.tm	Method	TBLASTX:Maize
Start	515	End	1102
GI	none	Score	179
Exons	515..784, 516..776, 845..943, 846..941, 941..1102, 948..1094, 950..1096		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o1.tw	Method	TBLASTX:Wheat
Start	656	End	1282
GI	none	Score	357
Exons	656..1282, 657..1226		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o3.tm	Method	TBLASTX:Maize
Start	1151	End	1443
GI	none	Score	161
Exons	1151..1441, 1155..1340, 1160..1372, 1252..1443		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9

Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o2.ts	Method	TBLASTX:Soybean
Start	1241	End	1501
GI	none	Score	54
Exons	1241..1309, 1241..1501, 1395..1496		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o1.tc	Method	TBLASTX:Cress
Start	1265	End	1591
GI	none	Score	64
Exons	1265..1408, 1266..1343, 1409..1591		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o3.tw	Method	TBLASTX:Wheat
Start	1289	End	1768
GI	none	Score	213
Exons	1289..1768, 1290..1673, 1295..1750		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o2.tw	Method	TBLASTX:Wheat
Start	1772	End	2281
GI	none	Score	300
Exons	1772..2281, 1863..2249		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o2.tm	Method	TBLASTX:Maize
Start	1856	End	2209
GI	none	Score	141
Exons	1856..2209, 1871..2167, 1941..2207		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o3.ts	Method	TBLASTX:Soybean
Start	2030	End	2272
GI	none	Score	188
Exons	2030..2272		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o5.tm	Method	TBLASTX:Maize
Start	2210	End	2563
GI	none	Score	117
Exons	2210..2563, 2292..2552		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-

Start	275	End	7625
Name	OJ990617_03.9922.C9.o5.tw	Method	TBLASTX:Wheat
Start	2282	End	2584
GI	none	Score	201
Exons	2282..2584, 2283..2546		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o1.ts	Method	TBLASTX:Soybean
Start	2297	End	2692
GI	none	Score	126
Exons	2297..2656, 2298..2540, 2515..2649, 2579..2653, 2660..2692, 2660..2692		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o4.tm	Method	TBLASTX:Maize
Start	2579	End	3050
GI	none	Score	90
Exons	2579..3046, 2612..2956, 2805..3050		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o4.tw	Method	TBLASTX:Wheat
Start	2633	End	3119
GI	none	Score	316
Exons	2633..3115, 2676..3119		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o4.ts	Method	TBLASTX:Soybean
Start	2765	End	3046
GI	none	Score	59
Exons	2765..3046, 2766..2963		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o8.tw	Method	TBLASTX:Wheat
Start	3290	End	3644
GI	none	Score	79
Exons	3290..3643, 3326..3460, 3549..3644		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o6.tm	Method	TBLASTX:Maize
Start	3377	End	3697
GI	none	Score	209
Exons	3377..3697		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-

Start	275	End	7625
Name	OJ990617_03.9922.C9.o8.tm	Method	TBLASTX:Maize
Start	4043	End	4339
GI	none	Score	103
Exons	4043..4339, 4152..4322		

Seq. No.	14870	Seq. ID	OJ990617_03.9922.C9
Gene No.	31625	Strand	-
Start	275	End	7625
Name	OJ990617_03.9922.C9.o7.tw	Method	TBLASTX:Wheat
Start	4220	End	4583
GI	none	Score	74
Exons	4220..4579, 4221..4454, 4479..4583		

Seq. No.	14871	Seq. ID	OJ990617_03.9922.C10
Gene No.	31626	Strand	-
Start	1	End	1206
Name	OJ990617_03.9922.C10.o1.np	Method	AAT/NAP
Start	1	End	1206
GI	6907089	Score	1891
Exons	1..1206		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	14871	Seq. ID	OJ990617_03.9922.C10
Gene No.	31626	Strand	-
Start	1	End	1206
Name	OJ990617_03.9922.C10.o1.gs	Method	GENSCAN
Start	406	End	1206
GI	none	Score	.68
Exons	406..673, 743..861, 880..1206		

Seq. No.	14871	Seq. ID	OJ990617_03.9922.C10
Gene No.	31627	Strand	-
Start	1808	End	3268
Name	OJ990617_03.9922.C10.o2.gs	Method	GENSCAN
Start	1808	End	3268
GI	none	Score	.69
Exons	1808..1885, 2308..2439, 2664..2783, 2817..2893, 3247..3268		

Seq. No.	14871	Seq. ID	OJ990617_03.9922.C10
Gene No.	31627	Strand	-
Start	1808	End	3268
Name	OJ990617_03.9922.C10.o2.np	Method	AAT/NAP
Start	2054	End	2897
GI	5922623	Score	417
Exons	2054..2124, 2292..2439, 2817..2897		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	14872	Seq. ID	OJ990317_03.9922.C1
Gene No.	31628	Strand	-
Start	1	End	161
Name	OJ990317_03.9922.C1.o1.gp	Method	AAT/GAP
Start	1	End	161
GI	7406_1.R1084	Score	292
Exons	1..161		

GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		
Seq. No.	14873	Seq. ID	OJ990317_03.9922.C3
Gene No.	31629	Strand	-
Start	1	End	697
Name	OJ990317_03.9922.C3.o1.gp	Method	AAT/GAP
Start	1	End	697
GI	342_1.R1084	Score	888
Exons	1..437, 547..697		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		
Seq. No.	14874	Seq. ID	OJ990317_03.9922.C6
Gene No.	31630	Strand	+
Start	1	End	513
Name	OJ990317_03.9922.C6.o1.np	Method	AAT/NAP
Start	1	End	513
GI	5295971	Score	863
Exons	1..513		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		
Seq. No.	14874	Seq. ID	OJ990317_03.9922.C6
Gene No.	31630	Strand	+
Start	1	End	513
Name	OJ990317_03.9922.C6.o1.tm	Method	TBLASTX:Maize
Start	1	End	513
GI	none	Score	325
Exons	1..234, 2..235, 217..249, 254..511, 255..512, 457..513		
Seq. No.	14874	Seq. ID	OJ990317_03.9922.C6
Gene No.	31630	Strand	+
Start	1	End	513
Name	OJ990317_03.9922.C6.o1.gs	Method	GENSCAN
Start	47	End	418
GI	none	Score	.48
Exons	47..418		
Seq. No.	14875	Seq. ID	OJ990317_03.9922.C7
Gene No.	31631	Strand	-
Start	63	End	187
Name	OJ990317_03.9922.C7.o1.gs	Method	GENSCAN
Start	63	End	187
GI	none	Score	.41
Exons	63..187		
Seq. No.	14876	Seq. ID	OJ990317_03.9922.C11
Gene No.	31632	Strand	+
Start	305	End	2921
Name	OJ990317_03.9922.C11.o1.np	Method	AAT/NAP
Start	305	End	2921
GI	4680204	Score	958
Exons	305..1740, 1815..2921		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	14876	Seq. ID	OJ990317_03.9922.C11
Gene No.	31632	Strand	+
Start	305	End	2921
Name	OJ990317_03.9922.C11.o1.gs	Method	GENSCAN
Start	320	End	2914
GI	none	Score	.54
Exons	320..465, 484..980, 1253..1467, 1621..1740, 1815..1956, 2082..2227, 2229..2914		

Seq. No.	14876	Seq. ID	OJ990317_03.9922.C11
Gene No.	31632	Strand	+
Start	305	End	2921
Name	OJ990317_03.9922.C11.o1.tw	Method	TBLASTX:Wheat
Start	1056	End	1392
GI	none	Score	148
Exons	1056..1202, 1069..1215, 1219..1356, 1275..1355, 1360..1392		

Seq. No.	14877	Seq. ID	OJ990317_03.9922.C12
Gene No.	31633	Strand	-
Start	1	End	800
Name	OJ990317_03.9922.C12.o1.np	Method	AAT/NAP
Start	1	End	800
GI	5441880	Score	504
Exons	1..210, 316..482, 777..800		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14877	Seq. ID	OJ990317_03.9922.C12
Gene No.	31633	Strand	-
Start	1	End	800
Name	OJ990317_03.9922.C12.o1.gs	Method	GENSCAN
Start	9	End	464
GI	none	Score	.55
Exons	9..210, 310..464		

Seq. No.	14878	Seq. ID	OJ990317_03.9922.C13
Gene No.	31634	Strand	+
Start	12	End	140
Name	OJ990317_03.9922.C13.o1.gs	Method	GENSCAN
Start	12	End	140
GI	none	Score	.46
Exons	12..140		

Seq. No.	14878	Seq. ID	OJ990317_03.9922.C13
Gene No.	31635	Strand	-
Start	292	End	398
Name	OJ990317_03.9922.C13.o1.gp	Method	AAT/GAP
Start	292	End	398
GI	LIB3477-003-P1-K1-E9	Score	139
Exons	292..398		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	14879	Seq. ID	OJ990317_03.9922.C15
Gene No.	31636	Strand	+

Start	1	End	1632
Name	OJ990317_03.9922.C15.o1.gp	Method	AAT/GAP
Start	1	End	180
GI	LIB3475-007-P1-K1-G8	Score	337
Exons	1..180		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	14879	Seq. ID	OJ990317_03.9922.C15
Gene No.	31636	Strand	+
Start	1	End	1632
Name	OJ990317_03.9922.C15.o1.np	Method	AAT/NAP
Start	1	End	1632
GI	5441880	Score	293
Exons	1..188, 1583..1632		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14879	Seq. ID	OJ990317_03.9922.C15
Gene No.	31636	Strand	+
Start	1	End	1632
Name	OJ990317_03.9922.C15.o1.gs	Method	GENSCAN
Start	115	End	256
GI	none	Score	.7
Exons	115..188, 245..256		

Seq. No.	14880	Seq. ID	OJ990317_03.9922.C16
Gene No.	31637	Strand	+
Start	134	End	211
Name	OJ990317_03.9922.C16.o1.gs	Method	GENSCAN
Start	134	End	211
GI	none	Score	.5
Exons	134..211		

Seq. No.	14880	Seq. ID	OJ990317_03.9922.C16
Gene No.	31638	Strand	-
Start	990	End	2311
Name	OJ990317_03.9922.C16.o2.gs	Method	GENSCAN
Start	990	End	2311
GI	none	Score	.88
Exons	990..1758, 1779..2125, 2234..2311		

Seq. No.	14880	Seq. ID	OJ990317_03.9922.C16
Gene No.	31638	Strand	-
Start	990	End	2311
Name	OJ990317_03.9922.C16.o1.np	Method	AAT/NAP
Start	1298	End	2254
GI	5734709	Score	327
Exons	1298..1849, 1904..2254		
GI Descrip.	(AC008075) Contains PF|00069 Eukaryotic protein kinase domain. [Arabidopsis thaliana]		

Seq. No.	14880	Seq. ID	OJ990317_03.9922.C16
Gene No.	31638	Strand	-
Start	990	End	2311

Name	OJ990317_03.9922.C16.o1.tc	Method	TBLASTX:Cress
Start	1422	End	2122
GI	none	Score	78
Exons	1422..1550, 1435..1551, 1545..1736, 1591..1698, 1784..1852, 1922..2122		

Seq. No.	14880	Seq. ID	OJ990317_03.9922.C16
Gene No.	31638	Strand	-
Start	990	End	2311
Name	OJ990317_03.9922.C16.o1.tm	Method	TBLASTX:Maize
Start	1428	End	2131
GI	none	Score	92
Exons	1428..1550, 1545..1727, 1784..1852, 1919..2131, 1953..2081		

Seq. No.	14880	Seq. ID	OJ990317_03.9922.C16
Gene No.	31638	Strand	-
Start	990	End	2311
Name	OJ990317_03.9922.C16.o1.ts	Method	TBLASTX:Soybean
Start	1434	End	2134
GI	none	Score	80
Exons	1434..1559, 1435..1551, 1590..1751, 1784..1852, 1907..2134, 1959..2081		

Seq. No.	14880	Seq. ID	OJ990317_03.9922.C16
Gene No.	31638	Strand	-
Start	990	End	2311
Name	OJ990317_03.9922.C16.o1.tw	Method	TBLASTX:Wheat
Start	1512	End	1908
GI	none	Score	41
Exons	1512..1595, 1516..1545, 1564..1725, 1590..1727, 1591..1710, 1634..1726, 1730..1786, 1787..1843, 1791..1832, 1801..1908		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31639	Strand	+
Start	1493	End	1763
Name	OJ990317_03.9922.C17.o1.gs	Method	GENSCAN
Start	1493	End	1763
GI	none	Score	.66
Exons	1493..1763		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31640	Strand	+
Start	3636	End	4881
Name	OJ990317_03.9922.C17.o3.np	Method	AAT/NAP
Start	3636	End	4881
GI	6721543	Score	85
Exons	3636..3765, 4849..4881		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31640	Strand	+
Start	3636	End	4881
Name	OJ990317_03.9922.C17.o1.gp	Method	AAT/GAP
Start	3650	End	4061
GI	7406_1.R1084	Score	668
Exons	3650..4061		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0		

[Pennisetum glaucum]'

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31641	Strand	-
Start	1	End	1824
Name	OJ990317_03.9922.C17.o1.np	Method	AAT/NAP
Start	1	End	1824
GI	6721516	Score	496
Exons	1..23, 838..1169, 1583..1824		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31642	Strand	-
Start	4282	End	10993
Name	OJ990317_03.9922.C17.o3.tm	Method	TBLASTX:Maize
Start	56	End	427
GI	none	Score	107
Exons	56..130, 194..427, 240..425		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31642	Strand	-
Start	4282	End	10993
Name	OJ990317_03.9922.C17.o1.ts	Method	TBLASTX:Soybean
Start	2114	End	2636
GI	none	Score	56
Exons	2114..2248, 2139..2198, 2194..2280, 2284..2382, 2288..2383, 2379..2636		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31642	Strand	-
Start	4282	End	10993
Name	OJ990317_03.9922.C17.o1.tm	Method	TBLASTX:Maize
Start	2224	End	2953
GI	none	Score	113
Exons	2224..2247, 2275..2382, 2379..2651, 2380..2661, 2663..2800, 2682..2708, 2753..2908, 2763..2882, 2870..2953		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31642	Strand	-
Start	4282	End	10993
Name	OJ990317_03.9922.C17.o2.gp	Method	AAT/GAP
Start	4004	End	4457
GI	LIB3431-045-P1-N1-A10	Score	852
Exons	4004..4457		
GI Descrip.	'5441876/dbj|AP000367.1|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31642	Strand	-
Start	4282	End	10993
Name	OJ990317_03.9922.C17.o2.gs	Method	GENSCAN
Start	4282	End	10393
GI	none	Score	.58
Exons	4282..4442, 4593..4795, 4800..4847, 4911..4990, 5133..5266, 5298..5418, 5511..5769, 5846..6144, 6238..6648, 6823..7069, 7175..7325, 7765..8060, 8262..9288, 9472..10393		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31642	Strand	-
Start	4282	End	10993
Name	OJ990317_03.9922.C17.o4.np	Method	AAT/NAP
Start	4561	End	9940
GI	5441880	Score	4685
Exons	4561..4795, 4911..5042, 5133..5156, 5193..5266, 5511..5769, 5846..6144, 6733..7069, 7175..7325, 7885..8200, 8459..8490, 8935..9940		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31642	Strand	-
Start	4282	End	10993
Name	OJ990317_03.9922.C17.o3.gp	Method	AAT/GAP
Start	5519	End	6018
GI	LIB3475-007-P1-K1-G8	Score	785
Exons	5519..5769, 5846..6018		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31642	Strand	-
Start	4282	End	10993
Name	OJ990317_03.9922.C17.o1.tw	Method	TBLASTX:Wheat
Start	8705	End	9085
GI	none	Score	85
Exons	8705..8881, 8705..8881, 8766..8885, 8879..9076, 8891..9085		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31642	Strand	-
Start	4282	End	10993
Name	OJ990317_03.9922.C17.o2.tm	Method	TBLASTX:Maize
Start	8783	End	9379
GI	none	Score	151
Exons	8783..8854, 8918..9217, 8979..9200, 9251..9379, 9273..9371		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31642	Strand	-
Start	4282	End	10993
Name	OJ990317_03.9922.C17.o4.gp	Method	AAT/GAP
Start	8905	End	9336
GI	5701669	Score	845
Exons	8905..9336		
GI Descrip.	5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31642	Strand	-
Start	4282	End	10993
Name	OJ990317_03.9922.C17.o5.np	Method	AAT/NAP
Start	9953	End	10993
GI	6721543	Score	195

Exons	9953..10069, 10865..10993		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	14881	Seq. ID	OJ990317_03.9922.C17
Gene No.	31642	Strand	-
Start	4282	End	10993
Name	OJ990317_03.9922.C17.o5.gp	Method	AAT/GAP
Start	10829	End	10977
GI	7406_1.R1084	Score	220
Exons	10829..10977		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		
Seq. No.	14882	Seq. ID	OJ990317_03.9922.C18
Gene No.	31643	Strand	+
Start	156	End	1047
Name	OJ990317_03.9922.C18.o1.gs	Method	GENSCAN
Start	156	End	1047
GI	none	Score	.57
Exons	156..229, 1020..1047		
Seq. No.	14883	Seq. ID	OJ990317_03.9922.C19
Gene No.	31644	Strand	-
Start	409	End	2594
Name	OJ990317_03.9922.C19.o1.gs	Method	GENSCAN
Start	409	End	2594
GI	none	Score	.68
Exons	409..892, 1264..1379, 2139..2594		
Seq. No.	14883	Seq. ID	OJ990317_03.9922.C19
Gene No.	31645	Strand	-
Start	3827	End	6832
Name	OJ990317_03.9922.C19.o2.gs	Method	GENSCAN
Start	3827	End	6832
GI	none	Score	.57
Exons	3827..4020, 6748..6832		
Seq. No.	14884	Seq. ID	OJ990317_03.9922.C20
Gene No.	31646	Strand	+
Start	1952	End	3048
Name	OJ990317_03.9922.C20.o1.gs	Method	GENSCAN
Start	1952	End	3048
GI	none	Score	.63
Exons	1952..1990, 2081..2206, 2493..2630, 2932..3048		
Seq. No.	14884	Seq. ID	OJ990317_03.9922.C20
Gene No.	31647	Strand	-
Start	5470	End	8188
Name	OJ990317_03.9922.C20.o2.gs	Method	GENSCAN
Start	5470	End	8188
GI	none	Score	.55
Exons	5470..5670, 6355..6427, 7339..7483, 8116..8188		
Seq. No.	14884	Seq. ID	OJ990317_03.9922.C20
Gene No.	31648	Strand	
Start	8880	End	9321
Name	OJ990317_03.9922.C20.o1.tm	Method	TBLASTX:Maize

Start	8880	End	9321
GI	none	Score	87
Exons	8880..8936, 8970..9044, 9108..9320, 9154..9321		

Seq. No.	14885	Seq. ID	OJ990317_03.9922.C21
Gene No.	31649	Strand	+
Start	1054	End	1578
Name	OJ990317_03.9922.C21.o1.gs	Method	GENSCAN
Start	1054	End	1578
GI	none	Score	.71
Exons	1054..1194, 1468..1578		

Seq. No.	14885	Seq. ID	OJ990317_03.9922.C21
Gene No.	31650	Strand	+
Start	2502	End	2756
Name	OJ990317_03.9922.C21.o1.gp	Method	AAT/GAP
Start	2502	End	2756
GI	61605_3.R1084	Score	411
Exons	2502..2756		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	14885	Seq. ID	OJ990317_03.9922.C21
Gene No.	31651	Strand	+
Start	4274	End	7766
Name	OJ990317_03.9922.C21.o2.np	Method	AAT/NAP
Start	4182	End	7766
GI	6063554	Score	221
Exons	4182..4226, 6178..6443, 6503..6722, 6971..7020, 7591..7766		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14885	Seq. ID	OJ990317_03.9922.C21
Gene No.	31651	Strand	+
Start	4274	End	7766
Name	OJ990317_03.9922.C21.o3.gs	Method	GENSCAN
Start	4274	End	5272
GI	none	Score	.55
Exons	4274..4560, 4617..4720, 4824..5020, 5210..5272		

Seq. No.	14885	Seq. ID	OJ990317_03.9922.C21
Gene No.	31652	Strand	-
Start	1695	End	2367
Name	OJ990317_03.9922.C21.o2.gs	Method	GENSCAN
Start	1695	End	2367
GI	none	Score	.72
Exons	1695..1850, 2236..2367		

Seq. No.	14885	Seq. ID	OJ990317_03.9922.C21
Gene No.	31653	Strand	-
Start	2585	End	3185
Name	OJ990317_03.9922.C21.o2.gp	Method	AAT/GAP
Start	2585	End	3185
GI	3761363	Score	856
Exons	2585..3185		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-151 Oryza sativa		

indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804

Seq. No.	14885	Seq. ID	OJ990317_03.9922.C21
Gene No.	31654	Strand	-
Start	3144	End	5433
Name	OJ990317_03.9922.C21.o1.np	Method	AAT/NAP
Start	3144	End	5433
GI	6063554	Score	150
Exons	3144..3316, 3941..3970, 4829..5127, 5263..5433		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	14886	Seq. ID	OJ990317_03.9922.C22
Gene No.	31655	Strand	-
Start	1	End	2320
Name	OJ990317_03.9922.C22.o1.gp	Method	AAT/GAP
Start	1	End	2320
GI	342_1.R1084	Score	4192
Exons	1..2320		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	14886	Seq. ID	OJ990317_03.9922.C22
Gene No.	31655	Strand	-
Start	1	End	2320
Name	OJ990317_03.9922.C22.o1.tw	Method	TBLASTX:Wheat
Start	119	End	1436
GI	none	Score	52
Exons	119..211, 120..185, 200..280, 285..365, 293..433, 294..434, 381..476, 413..472, 479..523, 484..519, 518..1435, 534..1436, 711..1436		

Seq. No.	14886	Seq. ID	OJ990317_03.9922.C22
Gene No.	31655	Strand	-
Start	1	End	2320
Name	OJ990317_03.9922.C22.o1.np	Method	AAT/NAP
Start	603	End	2320
GI	6742729	Score	2706
Exons	603..2320		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	14886	Seq. ID	OJ990317_03.9922.C22
Gene No.	31655	Strand	-
Start	1	End	2320
Name	OJ990317_03.9922.C22.o1.tc	Method	TBLASTX:Cress
Start	701	End	1152
GI	none	Score	92
Exons	701..850, 701..1138, 705..1148, 711..1148, 970..1152		

Seq. No.	14886	Seq. ID	OJ990317_03.9922.C22
Gene No.	31655	Strand	-
Start	1	End	2320
Name	OJ990317_03.9922.C22.o1.tm	Method	TBLASTX:Maize
Start	1079	End	1393
GI	none	Score	141
Exons	1079..1393, 1080..1382		

Seq. No.	14886	Seq. ID	OJ990317_03.9922.C22
Gene No.	31655	Strand	-
Start	1	End	2320
Name	OJ990317_03.9922.C22.o3.tw	Method	TBLASTX:Wheat
Start	1437	End	1847
GI	none	Score	81
Exons	1437..1523, 1439..1528, 1439..1522, 1556..1783, 1596..1784, 1784..1846, 1797..1847		

Seq. No.	14886	Seq. ID	OJ990317_03.9922.C22
Gene No.	31655	Strand	-
Start	1	End	2320
Name	OJ990317_03.9922.C22.o1.ts	Method	TBLASTX:Soybean
Start	1880	End	2122
GI	none	Score	216
Exons	1880..2122		

Seq. No.	14886	Seq. ID	OJ990317_03.9922.C22
Gene No.	31655	Strand	-
Start	1	End	2320
Name	OJ990317_03.9922.C22.o2.tm	Method	TBLASTX:Maize
Start	1952	End	2320
GI	none	Score	74
Exons	1952..2146, 2156..2320, 2157..2318		

Seq. No.	14886	Seq. ID	OJ990317_03.9922.C22
Gene No.	31655	Strand	-
Start	1	End	2320
Name	OJ990317_03.9922.C22.o2.tw	Method	TBLASTX:Wheat
Start	1986	End	2320
GI	none	Score	173
Exons	1986..2192, 1986..2195, 1991..2194, 1991..2215, 2195..2293, 2196..2288, 2297..2320		

Seq. No.	14887	Seq. ID	OJ990317_03.9922.C23
Gene No.	31656	Strand	+
Start	2056	End	2487
Name	OJ990317_03.9922.C23.o2.gs	Method	GENSCAN
Start	2056	End	2487
GI	none	Score	.54
Exons	2056..2072, 2304..2487		

Seq. No.	14887	Seq. ID	OJ990317_03.9922.C23
Gene No.	31657	Strand	+
Start	3936	End	4184
Name	OJ990317_03.9922.C23.o3.gs	Method	GENSCAN
Start	3936	End	4184
GI	none	Score	.9
Exons	3936..4184		

Seq. No.	14887	Seq. ID	OJ990317_03.9922.C23
Gene No.	31658	Strand	-
Start	1	End	1294
Name	OJ990317_03.9922.C23.o1.np	Method	AAT/NAP
Start	1	End	846
GI	4680203	Score	932

Exons	1..846		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		
Seq. No.	14887	Seq. ID	OJ990317_03.9922.C23
Gene No.	31658	Strand	-
Start	1	End	1294
Name	OJ990317_03.9922.C23.o1.gs	Method	GENSCAN
Start	34	End	846
GI	none	Score	.96
Exons	34..846		
Seq. No.	14887	Seq. ID	OJ990317_03.9922.C23
Gene No.	31658	Strand	-
Start	1	End	1294
Name	OJ990317_03.9922.C23.o1.ts	Method	TBLASTX:Soybean
Start	82	End	372
GI	none	Score	103
Exons	82..147, 154..372, 158..364		
Seq. No.	14887	Seq. ID	OJ990317_03.9922.C23
Gene No.	31658	Strand	-
Start	1	End	1294
Name	OJ990317_03.9922.C23.o1.tw	Method	TBLASTX:Wheat
Start	144	End	495
GI	none	Score	187
Exons	144..395, 154..405, 155..397, 388..495		
Seq. No.	14887	Seq. ID	OJ990317_03.9922.C23
Gene No.	31658	Strand	-
Start	1	End	1294
Name	OJ990317_03.9922.C23.o1.gp	Method	AAT/GAP
Start	708	End	1294
GI	2310235	Score	294
Exons	708..846, 1257..1294		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		
Seq. No.	14887	Seq. ID	OJ990317_03.9922.C23
Gene No.	31659	Strand	
Start	3652	End	3975
Name	OJ990317_03.9922.C23.o1.tm	Method	TBLASTX:Maize
Start	3652	End	3975
GI	none	Score	71
Exons	3652..3768, 3666..3767, 3767..3829, 3768..3974, 3769..3975		
Seq. No.	14888	Seq. ID	OJ990317_03.9922.C24
Gene No.	31660	Strand	-
Start	292	End	1627
Name	OJ990317_03.9922.C24.o1.gs	Method	GENSCAN
Start	292	End	1423
GI	none	Score	.88
Exons	292..420, 548..737, 830..990, 1342..1423		
Seq. No.	14888	Seq. ID	OJ990317_03.9922.C24
Gene No.	31660	Strand	-
Start	292	End	1627
Name	OJ990317_03.9922.C24.o1.np	Method	AAT/NAP

Start	669	End	1627
GI	2980766	Score	217
Exons	669..737, 830..990, 1342..1627		
GI Descrip.	(AL022198) putative calmodulin-binding protein [Arabidopsis thaliana]		

Seq. No.	14889	Seq. ID	OJ990317_03.9922.C25
Gene No.	31661	Strand	-
Start	1	End	360
Name	OJ990317_03.9922.C25.o1.np	Method	AAT/NAP
Start	1	End	360
GI	2191172	Score	131
Exons	1..360		
GI Descrip.	(AF007270) contains similarity to GATA-type zinc fingers (PS:PS00344) [Arabidopsis thaliana]		

Seq. No.	14890	Seq. ID	OJ990317_03.9922.C26
Gene No.	31662	Strand	+
Start	104	End	2731
Name	OJ990317_03.9922.C26.o1.gs	Method	GENSCAN
Start	104	End	2731
GI	none	Score	.41
Exons	104..435, 467..1417, 1771..2731		

Seq. No.	14890	Seq. ID	OJ990317_03.9922.C26
Gene No.	31662	Strand	+
Start	104	End	2731
Name	OJ990317_03.9922.C26.o2.tm	Method	TBLASTX:Maize
Start	992	End	1213
GI	none	Score	204
Exons	992..1213		

Seq. No.	14890	Seq. ID	OJ990317_03.9922.C26
Gene No.	31662	Strand	+
Start	104	End	2731
Name	OJ990317_03.9922.C26.o1.tm	Method	TBLASTX:Maize
Start	1795	End	2499
GI	none	Score	60
Exons	1795..1863, 1879..2217, 2269..2376, 2287..2379, 2407..2499		

Seq. No.	14890	Seq. ID	OJ990317_03.9922.C26
Gene No.	31662	Strand	+
Start	104	End	2731
Name	OJ990317_03.9922.C26.o1.ts	Method	TBLASTX:Soybean
Start	1807	End	2196
GI	none	Score	233
Exons	1807..2196, 1990..2103		

Seq. No.	14890	Seq. ID	OJ990317_03.9922.C26
Gene No.	31662	Strand	+
Start	104	End	2731
Name	OJ990317_03.9922.C26.o2.ts	Method	TBLASTX:Soybean
Start	2272	End	2574
GI	none	Score	206
Exons	2272..2574, 2322..2483		

Seq. No.	14891	Seq. ID	OJ990317_03.9922.C27

Gene No.	31663	Strand	+
Start	542	End	851
Name	OJ990317_03.9922.C27.o1.gs	Method	GENSCAN
Start	542	End	771
GI	none	Score	.87
Exons	542..771		

Seq. No.	14891	Seq. ID	OJ990317_03.9922.C27
Gene No.	31663	Strand	+
Start	542	End	851
Name	OJ990317_03.9922.C27.o1.np	Method	AAT/NAP
Start	562	End	851
GI	5295971	Score	409
Exons	562..851		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31664	Strand	+
Start	1	End	2049
Name	OJ990317_03.9922.C28.o1.np	Method	AAT/NAP
Start	1	End	2049
GI	5295971	Score	3333
Exons	1..2049		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31664	Strand	+
Start	1	End	2049
Name	OJ990317_03.9922.C28.o1.gs	Method	GENSCAN
Start	47	End	1994
GI	none	Score	.83
Exons	47..1043, 1061..1337, 1402..1490, 1510..1994		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31664	Strand	+
Start	1	End	2049
Name	OJ990317_03.9922.C28.o2.gp	Method	AAT/GAP
Start	779	End	1133
GI	uC-osflcyp139c12a1	Score	574
Exons	779..1133		
GI Descrip.	'5295971/dbj|BAA81872.1| 3.0e-44 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]'		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31665	Strand	-
Start	335	End	1290
Name	OJ990317_03.9922.C28.o4.tm	Method	TBLASTX:Maize
Start	1	End	127
GI	none	Score	183
Exons	1..123, 2..127		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31665	Strand	-
Start	335	End	1290
Name	OJ990317_03.9922.C28.o1.tw	Method	TBLASTX:Wheat
Start	52	End	505
GI	none	Score	326
Exons	52..357, 53..418, 56..433, 413..505, 425..505		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31665	Strand	-
Start	335	End	1290
Name	OJ990317_03.9922.C28.o2.tm	Method	TBLASTX:Maize
Start	142	End	382
GI	none	Score	301
Exons	142..381, 143..382		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31665	Strand	-
Start	335	End	1290
Name	OJ990317_03.9922.C28.o1.gp	Method	AAT/GAP
Start	335	End	770
GI	uC-osflM2020118f01a1	Score	801
Exons	335..770		
GI Descrip.	'5295971/dbj|BAA81872.1| 4.0e-64 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]'		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31665	Strand	-
Start	335	End	1290
Name	OJ990317_03.9922.C28.o3.ts	Method	TBLASTX:Soybean
Start	443	End	718
GI	none	Score	198
Exons	443..718, 539..619		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31665	Strand	-
Start	335	End	1290
Name	OJ990317_03.9922.C28.o2.tw	Method	TBLASTX:Wheat
Start	578	End	1128
GI	none	Score	112
Exons	578..718, 776..1042, 793..942, 1072..1128		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31665	Strand	-
Start	335	End	1290
Name	OJ990317_03.9922.C28.o1.tm	Method	TBLASTX:Maize
Start	781	End	1206
GI	none	Score	453
Exons	781..1077, 785..1072, 1024..1206, 1062..1205, 1072..1206		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31665	Strand	-
Start	335	End	1290
Name	OJ990317_03.9922.C28.o1.ts	Method	TBLASTX:Soybean
Start	812	End	1290

GI	none	Score	285
Exons	812..1072, 817..1071, 1072..1119, 1144..1290		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31665	Strand	-
Start	335	End	1290
Name	OJ990317_03.9922.C28.o1.tc	Method	TBLASTX:Cress
Start	827	End	1266
GI	none	Score	155
Exons	827..1060, 1072..1122, 1144..1266		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31666	Strand	
Start	1740	End	1997
Name	OJ990317_03.9922.C28.o2.ts	Method	TBLASTX:Soybean
Start	1740	End	1997
GI	5509260	Score	204
Exons	1740..1997, 1820..1996		
GI Descrip.	-		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31666	Strand	
Start	1740	End	1997
Name	OJ990317_03.9922.C28.o3.tw	Method	TBLASTX:Wheat
Start	1778	End	1997
GI	none	Score	186
Exons	1778..1996, 1779..1997		

Seq. No.	14892	Seq. ID	OJ990317_03.9922.C28
Gene No.	31666	Strand	
Start	1740	End	1997
Name	OJ990317_03.9922.C28.o3.tm	Method	TBLASTX:Maize
Start	1779	End	1997
GI	none	Score	265
Exons	1779..1997, 1781..1996		

Seq. No.	14893	Seq. ID	OJ990317_03.9922.C29
Gene No.	31667	Strand	+
Start	1	End	1486
Name	OJ990317_03.9922.C29.o1.np	Method	AAT/NAP
Start	1	End	1486
GI	5295971	Score	2469
Exons	1..1486		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	14893	Seq. ID	OJ990317_03.9922.C29
Gene No.	31668	Strand	-
Start	932	End	1459
Name	OJ990317_03.9922.C29.o1.ts	Method	TBLASTX:Soybean
Start	210	End	707
GI	5509260	Score	427
Exons	210..707, 260..466, 530..688		
GI Descrip.	-		

Seq. No.	14893	Seq. ID	OJ990317_03.9922.C29

Gene No.	31668	Strand	-
Start	932	End	1459
Name	OJ990317_03.9922.C29.o2.tm	Method	TBLASTX:Maize
Start	249	End	557
GI	none	Score	399
Exons	249..557, 296..556		

Seq. No.	14893	Seq. ID	OJ990317_03.9922.C29
Gene No.	31668	Strand	-
Start	932	End	1459
Name	OJ990317_03.9922.C29.o2.tc	Method	TBLASTX:Cress
Start	332	End	596
GI	none	Score	244
Exons	332..463, 333..596, 426..596		

Seq. No.	14893	Seq. ID	OJ990317_03.9922.C29
Gene No.	31668	Strand	-
Start	932	End	1459
Name	OJ990317_03.9922.C29.o1.tw	Method	TBLASTX:Wheat
Start	377	End	932
GI	none	Score	307
Exons	377..466, 378..722, 531..698, 708..932		

Seq. No.	14893	Seq. ID	OJ990317_03.9922.C29
Gene No.	31668	Strand	-
Start	932	End	1459
Name	OJ990317_03.9922.C29.o1.tm	Method	TBLASTX:Maize
Start	759	End	1150
GI	none	Score	603
Exons	759..1148, 761..1150, 761..1078, 876..1148		

Seq. No.	14893	Seq. ID	OJ990317_03.9922.C29
Gene No.	31668	Strand	-
Start	932	End	1459
Name	OJ990317_03.9922.C29.o2.ts	Method	TBLASTX:Soybean
Start	858	End	1247
GI	none	Score	300
Exons	858..1247, 995..1078, 1157..1237		

Seq. No.	14893	Seq. ID	OJ990317_03.9922.C29
Gene No.	31668	Strand	-
Start	932	End	1459
Name	OJ990317_03.9922.C29.o1.gp	Method	AAT/GAP
Start	932	End	1386
GI	36280_1.R1084	Score	854
Exons	932..1386		
GI Descrip.	'5295971/dbj|BAA81872.1| 1.0e-81 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]'		

Seq. No.	14893	Seq. ID	OJ990317_03.9922.C29
Gene No.	31668	Strand	-
Start	932	End	1459
Name	OJ990317_03.9922.C29.o2.tw	Method	TBLASTX:Wheat
Start	933	End	1244
GI	none	Score	64

Exons	933..1040, 1065..1244		
Seq. No.	14893	Seq. ID	OJ990317_03.9922.C29
Gene No.	31668	Strand	-
Start	932	End	1459
Name	OJ990317_03.9922.C29.o1.tc	Method	TBLASTX:Cress
Start	1065	End	1443
GI	none	Score	248
Exons	1065..1352, 1127..1237, 1262..1351, 1361..1438, 1362..1442, 1420..1443		
Seq. No.	14893	Seq. ID	OJ990317_03.9922.C29
Gene No.	31668	Strand	-
Start	932	End	1459
Name	OJ990317_03.9922.C29.o3.tm	Method	TBLASTX:Maize
Start	1151	End	1459
GI	none	Score	314
Exons	1151..1447, 1152..1448, 1340..1459		
Seq. No.	14894	Seq. ID	OJ990317_03.9922.C30
Gene No.	31669	Strand	+
Start	1	End	83
Name	OJ990317_03.9922.C30.o1.np	Method	AAT/NAP
Start	1	End	83
GI	5295971	Score	126
Exons	1..83		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		
Seq. No.	14894	Seq. ID	OJ990317_03.9922.C30
Gene No.	31670	Strand	-
Start	1560	End	3634
Name	OJ990317_03.9922.C30.o1.gs	Method	GENSCAN
Start	1560	End	3634
GI	none	Score	.85
Exons	1560..1805, 1830..1950, 2728..2848, 3451..3634		
Seq. No.	14895	Seq. ID	OJ990317_03.9922.C33
Gene No.	31671	Strand	-
Start	406	End	648
Name	OJ990317_03.9922.C33.o1.gs	Method	GENSCAN
Start	406	End	648
GI	none	Score	.85
Exons	406..648		
Seq. No.	14896	Seq. ID	OJ990317_03.9922.C34
Gene No.	31672	Strand	+
Start	1	End	1193
Name	OJ990317_03.9922.C34.o1.np	Method	AAT/NAP
Start	1	End	661
GI	5734727	Score	338
Exons	1..222, 259..661		
GI Descrip.	(AC007259) Very similar to receptor-like protein kinases [Arabidopsis thaliana]		
Seq. No.	14896	Seq. ID	OJ990317_03.9922.C34

Gene No.	31672	Strand	+
Start	1	End	1193
Name	OJ990317_03.9922.C34.o2.np	Method	AAT/NAP
Start	1	End	1193
GI	6630693	Score	204
Exons	1..663, 827..1193		
GI Descrip.	(AP000969) Similar to CRINKLY4 precursor. (U67422) [Oryza sativa]		

Seq. No.	14896	Seq. ID	OJ990317_03.9922.C34
Gene No.	31672	Strand	+
Start	1	End	1193
Name	OJ990317_03.9922.C34.o1.tm	Method	TBLASTX:Maize
Start	1	End	654
GI	none	Score	165
Exons	1..237, 3..137, 352..498, 352..498, 541..654, 546..650		

Seq. No.	14896	Seq. ID	OJ990317_03.9922.C34
Gene No.	31672	Strand	+
Start	1	End	1193
Name	OJ990317_03.9922.C34.o1.ts	Method	TBLASTX:Soybean
Start	1	End	657
GI	none	Score	167
Exons	1..237, 352..540, 540..656, 541..657		

Seq. No.	14896	Seq. ID	OJ990317_03.9922.C34
Gene No.	31672	Strand	+
Start	1	End	1193
Name	OJ990317_03.9922.C34.o1.tc	Method	TBLASTX:Cress
Start	1	End	657
GI	none	Score	156
Exons	1..237, 9..155, 352..498, 526..657		

Seq. No.	14896	Seq. ID	OJ990317_03.9922.C34
Gene No.	31672	Strand	+
Start	1	End	1193
Name	OJ990317_03.9922.C34.o1.gs	Method	GENSCAN
Start	70	End	1072
GI	none	Score	.85
Exons	70..639, 674..1072		

Seq. No.	14896	Seq. ID	OJ990317_03.9922.C34
Gene No.	31672	Strand	+
Start	1	End	1193
Name	OJ990317_03.9922.C34.o1.tw	Method	TBLASTX:Wheat
Start	328	End	510
GI	none	Score	185
Exons	328..498, 352..510		

Seq. No.	14897	Seq. ID	OJ990317_03.9922.C35
Gene No.	31673	Strand	+
Start	243	End	312
Name	OJ990317_03.9922.C35.o1.gs	Method	GENSCAN
Start	243	End	312
GI	none	Score	.99
Exons	243..312		

Seq. No.	14897	Seq. ID	OJ990317_03.9922.C35
Gene No.	31674	Strand	+ -
Start	3730	End	3939
Name	OJ990317_03.9922.C35.o2.gs	Method	GENSCAN
Start	3730	End	3939
GI	none	Score	.58
Exons	3730..3939		

Seq. No.	14897	Seq. ID	OJ990317_03.9922.C35
Gene No.	31675	Strand	+
Start	3858	End	7217
Name	OJ990317_03.9922.C35.o2.np	Method	AAT/NAP
Start	3858	End	7217
GI	6714300	Score	195
Exons	3858..3883, 6732..6976, 7028..7217		
GI Descrip.	(AC013354) F15H18.11 [Arabidopsis thaliana]		

Seq. No.	14897	Seq. ID	OJ990317_03.9922.C35
Gene No.	31675	Strand	+
Start	3858	End	7217
Name	OJ990317_03.9922.C35.o1.tm	Method	TBLASTX:Maize
Start	6047	End	6480
GI	none	Score	50
Exons	6047..6103, 6054..6107, 6107..6190, 6108..6194, 6194..6241, 6197..6256, 6251..6334, 6364..6480, 6375..6479		

Seq. No.	14897	Seq. ID	OJ990317_03.9922.C35
Gene No.	31675	Strand	+
Start	3858	End	7217
Name	OJ990317_03.9922.C35.o3.gs	Method	GENSCAN
Start	6056	End	7204
GI	none	Score	.8
Exons	6056..6354, 6453..6555, 6699..6891, 7061..7204		

Seq. No.	14897	Seq. ID	OJ990317_03.9922.C35
Gene No.	31675	Strand	+
Start	3858	End	7217
Name	OJ990317_03.9922.C35.o1.np	Method	AAT/NAP
Start	6057	End	6496
GI	6598810	Score	183
Exons	6057..6496		
GI Descrip.	(AF024504) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14897	Seq. ID	OJ990317_03.9922.C35
Gene No.	31675	Strand	+
Start	3858	End	7217
Name	OJ990317_03.9922.C35.o1.tw	Method	TBLASTX:Wheat
Start	6090	End	6489
GI	none	Score	105
Exons	6090..6194, 6092..6193, 6251..6355, 6331..6357, 6360..6488, 6361..6489, 6361..6489		

Seq. No.	14897	Seq. ID	OJ990317_03.9922.C35
Gene No.	31675	Strand	+
Start	3858	End	7217
Name	OJ990317_03.9922.C35.o1.ts	Method	TBLASTX:Soybean
Start	6729	End	7099

GI	none	Score	173
Exons	6729..6914, 6752..6928, 6974..7099		

Seq. No.	14897	Seq. ID	OJ990317_03.9922.C35
Gene No.	31675	Strand	+
Start	3858	End	7217
Name	OJ990317_03.9922.C35.o1.tc	Method	TBLASTX:Cress
Start	6743	End	7099
GI	none	Score	135
Exons	6743..6868, 6744..6914, 6920..6973, 7034..7099		

Seq. No.	14897	Seq. ID	OJ990317_03.9922.C35
Gene No.	31675	Strand	+
Start	3858	End	7217
Name	OJ990317_03.9922.C35.o2.tm	Method	TBLASTX:Maize
Start	6744	End	7099
GI	none	Score	149
Exons	6744..6914, 6755..6928, 6926..6970, 7031..7099		

Seq. No.	14898	Seq. ID	OJ990317_03.9922.C36
Gene No.	31676	Strand	+
Start	110	End	1541
Name	OJ990317_03.9922.C36.o1.np	Method	AAT/NAP
Start	110	End	1541
GI	6630693	Score	51
Exons	110..358, 1512..1541		
GI Descrip.	(AP000969) Similar to CRINKLY4 precursor. (U67422) [Oryza sativa]		

Seq. No.	14898	Seq. ID	OJ990317_03.9922.C36
Gene No.	31677	Strand	-
Start	130	End	1541
Name	OJ990317_03.9922.C36.o1.gs	Method	GENSCAN
Start	130	End	1541
GI	none	Score	.55
Exons	130..385, 1402..1541		

Seq. No.	14899	Seq. ID	OJ990317_03.9922.C37
Gene No.	31678	Strand	+
Start	3445	End	6148
Name	OJ990317_03.9922.C37.o1.np	Method	AAT/NAP
Start	3445	End	6148
GI	6539558	Score	451
Exons	3445..3953, 4209..4467, 5554..6148		
GI Descrip.	(AP000836) Similar to putative polyprotein (AC006248) [Oryza sativa]		

Seq. No.	14899	Seq. ID	OJ990317_03.9922.C37
Gene No.	31679	Strand	+
Start	8519	End	8960
Name	OJ990317_03.9922.C37.o2.np	Method	AAT/NAP
Start	8519	End	8960
GI	6598399	Score	91
Exons	8519..8960		
GI Descrip.	(AC003952) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	14899	Seq. ID	OJ990317_03.9922.C37
Gene No.	31680	Strand	+
Start	15739	End	16101
Name	OJ990317_03.9922.C37.o4.gs	Method	GENSCAN
Start	15739	End	16101
GI	none	Score	.6
Exons	15739..16101		

Seq. No.	14899	Seq. ID	OJ990317_03.9922.C37
Gene No.	31681	Strand	+
Start	17324	End	18869
Name	OJ990317_03.9922.C37.o3.np	Method	AAT/NAP
Start	17324	End	18869
GI	6721547	Score	80
Exons	17324..17425, 18802..18869		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	14899	Seq. ID	OJ990317_03.9922.C37
Gene No.	31682	Strand	-
Start	17894	End	18379
Name	OJ990317_03.9922.C37.o1.ts	Method	TBLASTX:Soybean
Start	5807	End	6142
GI	5509260	Score	228
Exons	5807..6142, 5932..6066		
GI Descrip.	-		

Seq. No.	14899	Seq. ID	OJ990317_03.9922.C37
Gene No.	31682	Strand	-
Start	17894	End	18379
Name	OJ990317_03.9922.C37.o1.tm	Method	TBLASTX:Maize
Start	5833	End	6152
GI	none	Score	100
Exons	5833..6132, 5837..6142, 5837..6082, 5847..5870, 5854..6144, 5931..6152		

Seq. No.	14899	Seq. ID	OJ990317_03.9922.C37
Gene No.	31682	Strand	-
Start	17894	End	18379
Name	OJ990317_03.9922.C37.o5.gs	Method	GENSCAN
Start	17894	End	18379
GI	none	Score	.73
Exons	17894..17971, 18173..18273, 18289..18379		

Seq. No.	14900	Seq. ID	OJ990317_03.9922.C38
Gene No.	31683	Strand	-
Start	187	End	2195
Name	OJ990317_03.9922.C38.o1.gs	Method	GENSCAN
Start	187	End	2195
GI	none	Score	.57
Exons	187..300, 1189..1307, 1370..1602, 1710..2195		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31684	Strand	+
Start	8730	End	15605
Name	OJ990317_03.9922.C39.o2.gs	Method	GENSCAN
Start	8730	End	15605
GI	none	Score	.42

Exons	8730..8944, 8985..9262, 9493..9735, 11388..11434, 11817..11987, 12816..12824, 13130..13331, 13662..13742, 14499..14578, 14611..14931, 14940..15409, 15593..15605		
Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31685	Strand	-
Start	521	End	6545
Name	OJ990317_03.9922.C39.o1.np	Method	AAT/NAP
Start	521	End	5112
GI	4680179	Score	4575
Exons	521..3938, 4041..5112		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31685	Strand	-
Start	521	End	6545
Name	OJ990317_03.9922.C39.o1.gs	Method	GENSCAN
Start	550	End	6545
GI	none	Score	.7
Exons	550..1238, 1305..5155, 5589..5816, 5840..5930, 6156..6406, 6472..6545		
Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31686	Strand	-
Start	9255	End	12020
Name	OJ990317_03.9922.C39.o2.np	Method	AAT/NAP
Start	9255	End	12020
GI	5922623	Score	185
Exons	9255..9357, 10997..11073, 11261..11424, 11946..12020		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o5.tw	Method	TBLASTX:Wheat
Start	565	End	897
GI	none	Score	114
Exons	565..897, 586..735, 617..802, 790..858		
Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o8.tm	Method	TBLASTX:Maize
Start	580	End	741
GI	none	Score	93
Exons	580..738, 583..741		
Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o1.tm	Method	TBLASTX:Maize
Start	748	End	1341
GI	none	Score	89
Exons	748..1185, 758..967, 1004..1186, 1043..1186, 1183..1341, 1190..1336		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o1.tw	Method	TBLASTX:Wheat
Start	898	End	1524
GI	none	Score	152
Exons	898..1524, 949..1377, 1022..1429		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o4.tm	Method	TBLASTX:Maize
Start	1393	End	1683
GI	none	Score	53
Exons	1393..1683, 1397..1441, 1493..1672		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o2.ts	Method	TBLASTX:Soybean
Start	1483	End	1738
GI	none	Score	73
Exons	1483..1611, 1483..1731, 1493..1738		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o1.tc	Method	TBLASTX:Cress
Start	1507	End	1824
GI	none	Score	91
Exons	1507..1650, 1523..1648, 1651..1824, 1705..1803		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o3.tw	Method	TBLASTX:Wheat
Start	1531	End	2055
GI	none	Score	262
Exons	1531..2055, 1535..1903		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o2.tm	Method	TBLASTX:Maize
Start	2098	End	2451
GI	none	Score	223
Exons	2098..2451, 2150..2449		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o2.tw	Method	TBLASTX:Wheat
Start	2098	End	2524
GI	none	Score	112
Exons	2098..2523, 2100..2462, 2113..2466, 2135..2524		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o3.ts	Method	TBLASTX:Soybean
Start	2272	End	2517
GI	none	Score	214
Exons	2272..2517		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o3.tm	Method	TBLASTX:Maize
Start	2488	End	2988
GI	none	Score	159
Exons	2488..2823, 2809..2988		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o6.tw	Method	TBLASTX:Wheat
Start	2530	End	2826
GI	none	Score	178
Exons	2530..2826, 2567..2782		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o1.ts	Method	TBLASTX:Soybean
Start	2539	End	2934
GI	none	Score	146
Exons	2539..2898, 2567..2782, 2590..2898, 2902..2934, 2902..2934		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o4.tw	Method	TBLASTX:Wheat
Start	2875	End	3358
GI	none	Score	154
Exons	2875..3357, 2890..3330, 2903..3358		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o5.tm	Method	TBLASTX:Maize
Start	3058	End	3345
GI	none	Score	180
Exons	3058..3345, 3059..3244		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o7.tw	Method	TBLASTX:Wheat
Start	3505	End	3904
GI	none	Score	82
Exons	3505..3669, 3554..3673, 3682..3903, 3749..3904		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39

Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o7.tm	Method	TBLASTX:Maize
Start	3586	End	3910
GI	none	Score	66
Exons	3586..3909, 3797..3910		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o6.tm	Method	TBLASTX:Maize
Start	4219	End	4620
GI	none	Score	241
Exons	4219..4620		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o8.tw	Method	TBLASTX:Wheat
Start	4501	End	4866
GI	none	Score	57
Exons	4501..4866, 4760..4861		

Seq. No.	14901	Seq. ID	OJ990317_03.9922.C39
Gene No.	31687	Strand	-
Start	16317	End	17312
Name	OJ990317_03.9922.C39.o3.gs	Method	GENSCAN
Start	16317	End	17312
GI	none	Score	.96
Exons	16317..16502, 16582..16680, 16775..16847, 16932..17042, 17139..17312		

Seq. No.	14902	Seq. ID	OJ990317_03.9922.C44
Gene No.	31688	Strand	-
Start	9	End	197
Name	OJ990317_03.9922.C44.o1.gs	Method	GENSCAN
Start	9	End	197
GI	none	Score	.66
Exons	9..197		

Seq. No.	14903	Seq. ID	OJ990317_02.9922.C1
Gene No.	31689	Strand	+
Start	3389	End	7785
Name	OJ990317_02.9922.C1.o1.np	Method	AAT/NAP
Start	3389	End	7785
GI	2245029	Score	53
Exons	3389..3418, 6016..6151, 6318..6449, 7665..7785		
GI Descrip.	(Z97341) limonene cyclase like protein [Arabidopsis thaliana]		

Seq. No.	14904	Seq. ID	OJ990317_02.9922.C2
Gene No.	31690	Strand	-
Start	28	End	421
Name	OJ990317_02.9922.C2.o1.gs	Method	GENSCAN
Start	28	End	421
GI	none	Score	.54
Exons	28..421		

Seq. No.	14905	Seq. ID	OJ990317_02.9922.C3
Gene No.	31691	Strand	+
Start	61	End	258
Name	OJ990317_02.9922.C3.o1.gs	Method	GENSCAN
Start	61	End	258
GI	none	Score	.71
Exons	61..152, 210..258		

Seq. No.	14906	Seq. ID	OJ990317_02.9922.C4
Gene No.	31692	Strand	+
Start	382	End	799
Name	OJ990317_02.9922.C4.o1.gs	Method	GENSCAN
Start	382	End	799
GI	none	Score	.75
Exons	382..575, 637..799		

Seq. No.	14907	Seq. ID	OJ990317_02.9922.C5
Gene No.	31693	Strand	+
Start	1050	End	1686
Name	OJ990317_02.9922.C5.o1.np	Method	AAT/NAP
Start	1050	End	1686
GI	5042454	Score	162
Exons	1050..1224, 1632..1686		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	14907	Seq. ID	OJ990317_02.9922.C5
Gene No.	31694	Strand	-
Start	546	End	1239
Name	OJ990317_02.9922.C5.o1.gs	Method	GENSCAN
Start	546	End	1239
GI	none	Score	.84
Exons	546..736, 1011..1239		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31695	Strand	+
Start	2325	End	8420
Name	OJ990317_02.9922.C6.o1.gs	Method	GENSCAN
Start	2325	End	8420
GI	none	Score	.72
Exons	2325..5123, 5259..8420		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31695	Strand	+
Start	2325	End	8420
Name	OJ990317_02.9922.C6.o1.np	Method	AAT/NAP
Start	2325	End	8384
GI	5922631	Score	6673
Exons	2325..2449, 2708..2955, 3190..3392, 3438..4009, 4052..4200, 4327..5250, 5857..8384		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativ		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31696	Strand	+
Start	13223	End	19476
Name	OJ990317_02.9922.C6.o1.gp	Method	AAT/GAP
Start	12992	End	13138
GI	uC-osflcyp177g01a1	Score	241
Exons	12992..13138		
GI Descrip.	'4884864/gb|AAD31846.1|AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31696	Strand	+
Start	13223	End	19476
Name	OJ990317_02.9922.C6.o3.gs	Method	GENSCAN
Start	13223	End	19476
GI	none	Score	.71
Exons	13223..13274, 13512..13690, 13882..13932, 14492..14626, 15333..15530, 17438..17602, 17801..17976, 18734..18914, 19426..19476		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31697	Strand	-
Start	8737	End	11677
Name	OJ990317_02.9922.C6.o2.gs	Method	GENSCAN
Start	8737	End	11677
GI	none	Score	.78
Exons	8737..9185, 9258..9362, 9435..9624, 9699..9886, 10006..10594, 10792..11126, 11548..11677		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31697	Strand	-
Start	8737	End	11677
Name	OJ990317_02.9922.C6.o2.np	Method	AAT/NAP
Start	8740	End	11677
GI	6691716	Score	2280
Exons	8740..9185, 9258..9370, 9521..9624, 9699..9893, 10070..10337, 10419..10594, 10792..11677		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31698	Strand	-
Start	15252	End	18889
Name	OJ990317_02.9922.C6.o3.np	Method	AAT/NAP
Start	15252	End	18889
GI	4455232	Score	63
Exons	15252..15292, 17182..17326, 18861..18889		
GI Descrip.	(AL035523) putative protein [Arabidopsis thaliana]		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o7.tw	Method	TBLASTX:Wheat
Start	3614	End	4016
GI	none	Score	297
Exons	3614..3922, 3615..4016		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o6.tw	Method	TBLASTX:Wheat
Start	4590	End	5047
GI	none	Score	149
Exons	4590..4766, 4811..5047, 4815..5045		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o1.tw	Method	TBLASTX:Wheat
Start	5267	End	5723
GI	none	Score	497
Exons	5267..5722, 5268..5723		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o3.ts	Method	TBLASTX:Soybean
Start	5307	End	5672
GI	none	Score	138
Exons	5307..5531, 5538..5672		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o2.tm	Method	TBLASTX:Maize
Start	5397	End	5753
GI	none	Score	375
Exons	5397..5753, 5438..5743, 5460..5753		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o2.tw	Method	TBLASTX:Wheat
Start	5838	End	6262
GI	none	Score	446
Exons	5838..6257, 5882..6262, 5957..6262		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o1.ts	Method	TBLASTX:Soybean
Start	5916	End	6317
GI	none	Score	318
Exons	5916..6317, 5933..6076, 5949..6158, 6113..6283		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o3.tm	Method	TBLASTX:Maize
Start	5984	End	6428
GI	none	Score	272
Exons	5984..6238, 5985..6239, 6260..6391, 6261..6404, 6402..6428		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o8.tw	Method	TBLASTX:Wheat
Start	6267	End	6552
GI	none	Score	270
Exons	6267..6548, 6276..6536, 6454..6552		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o2.ts	Method	TBLASTX:Soybean
Start	6543	End	6931
GI	none	Score	88
Exons	6543..6647, 6551..6931, 6687..6929		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o4.tw	Method	TBLASTX:Wheat
Start	6552	End	6974
GI	none	Score	414
Exons	6552..6974, 6560..6964		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o6.tm	Method	TBLASTX:Maize
Start	6605	End	6878
GI	none	Score	124
Exons	6605..6775, 6606..6776, 6780..6878, 6812..6877		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o10.tw	Method	TBLASTX:Wheat
Start	6990	End	7289
GI	none	Score	134
Exons	6990..7124, 7158..7289		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o1.tm	Method	TBLASTX:Maize
Start	7287	End	7649
GI	none	Score	452
Exons	7287..7610, 7307..7597, 7601..7648, 7602..7649		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o3.tw	Method	TBLASTX:Wheat
Start	7292	End	7679
GI	none	Score	425
Exons	7292..7603, 7293..7679, 7494..7679		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6

Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o7.tm	Method	TBLASTX:Maize
Start	7751	End	8024
GI	none	Score	95
Exons	7751..7849, 7752..7850, 7841..7927, 7845..7928, 7938..8024		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o5.tw	Method	TBLASTX:Wheat
Start	7794	End	8408
GI	none	Score	271
Exons	7794..8072, 7955..8056, 8127..8285, 8271..8408, 8282..8404		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o5.tm	Method	TBLASTX:Maize
Start	8136	End	8369
GI	none	Score	152
Exons	8136..8288, 8237..8287, 8267..8368, 8268..8369		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o9.tw	Method	TBLASTX:Wheat
Start	11267	End	11557
GI	none	Score	208
Exons	11267..11557		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o4.tm	Method	TBLASTX:Maize
Start	17490	End	17909
GI	none	Score	115
Exons	17490..17612, 17495..17614, 17531..17614, 17704..17802, 17705..17803, 17804..17866, 17808..17864, 17870..17905, 17874..17909		

Seq. No.	14908	Seq. ID	OJ990317_02.9922.C6
Gene No.	31699	Strand	-
Start	20870	End	20946
Name	OJ990317_02.9922.C6.o4.gs	Method	GENSCAN
Start	20870	End	20946
GI	none	Score	.69
Exons	20870..20946		

Seq. No.	14909	Seq. ID	OJ990317_02.9922.C7
Gene No.	31700	Strand	+
Start	411	End	491
Name	OJ990317_02.9922.C7.o1.gs	Method	GENSCAN
Start	411	End	491
GI	none	Score	.52
Exons	411..491		

Seq. No.	14909	Seq. ID	OJ990317_02.9922.C7
Gene No.	31701	Strand	+
Start	3496	End	3914
Name	OJ990317_02.9922.C7.o2.gs	Method	GENSCAN
Start	3496	End	3914
GI	none	Score	.51
Exons	3496..3556, 3820..3914		

Seq. No.	14909	Seq. ID	OJ990317_02.9922.C7
Gene No.	31702	Strand	+
Start	4888	End	8284
Name	OJ990317_02.9922.C7.o3.gs	Method	GENSCAN
Start	4888	End	8284
GI	none	Score	.54
Exons	4888..4950, 6833..7684, 7777..7912, 7998..8110, 8123..8284		

Seq. No.	14909	Seq. ID	OJ990317_02.9922.C7
Gene No.	31703	Strand	-
Start	7269	End	7713
Name	OJ990317_02.9922.C7.o3.gp	Method	AAT/GAP
Start	7269	End	7713
GI	none	Score	821
Exons	7269..7713		

Seq. No.	14909	Seq. ID	OJ990317_02.9922.C7
Gene No.	31704	Strand	-
Start	9255	End	9596
Name	OJ990317_02.9922.C7.o4.gs	Method	GENSCAN
Start	9255	End	9596
GI	none	Score	.9
Exons	9255..9433, 9462..9596		

Seq. No.	14910	Seq. ID	OJ990317_02.9922.C8
Gene No.	31705	Strand	-
Start	1087	End	4321
Name	OJ990317_02.9922.C8.o1.gs	Method	GENSCAN
Start	1087	End	4321
GI	none	Score	.79
Exons	1087..1488, 3217..3256, 3437..3553, 4284..4321		

Seq. No.	14911	Seq. ID	OJ990317_02.9922.C12
Gene No.	31706	Strand	-
Start	28	End	540
Name	OJ990317_02.9922.C12.o1.gs	Method	GENSCAN
Start	28	End	540
GI	none	Score	.67
Exons	28..139, 322..540		

Seq. No.	14912	Seq. ID	OJ990317_02.9922.C13
Gene No.	31707	Strand	-
Start	171	End	519
Name	OJ990317_02.9922.C13.o1.gs	Method	GENSCAN
Start	171	End	519
GI	none	Score	.55
Exons	171..519		

Seq. No.	14913	Seq. ID	OJ990317_02.9922.C14

Gene No.	31708	Strand	-
Start	290	End	1454
Name	OJ990317_02.9922.C14.o1.np	Method	AAT/NAP
Start	290	End	1454
GI	6907088	Score	720
Exons	290..671, 1167..1454		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	14913	Seq. ID	OJ990317_02.9922.C14
Gene No.	31708	Strand	-
Start	290	End	1454
Name	OJ990317_02.9922.C14.o1.gp	Method	AAT/GAP
Start	709	End	903
GI	5667165	Score	339
Exons	709..903		
GI Descrip.	5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31709	Strand	+
Start	1818	End	8358
Name	OJ990317_02.9922.C15.o1.gs	Method	GENSCAN
Start	1818	End	7391
GI	none	Score	.45
Exons	1818..1989, 2164..2322, 2487..2653, 3057..4473, 4897..5269, 5386..6557, 6624..7391		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31709	Strand	+
Start	1818	End	8358
Name	OJ990317_02.9922.C15.o2.np	Method	AAT/NAP
Start	1957	End	2737
GI	6002794	Score	1187
Exons	1957..2737		
GI Descrip.	(AF149813) unknown [Oryza sativa]		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31709	Strand	+
Start	1818	End	8358
Name	OJ990317_02.9922.C15.o3.np	Method	AAT/NAP
Start	3228	End	8358
GI	4680179	Score	3791
Exons	3228..4284, 4387..7424, 8176..8358		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31710	Strand	-
Start	1	End	819
Name	OJ990317_02.9922.C15.o1.np	Method	AAT/NAP
Start	1	End	819
GI	6907088	Score	508
Exons	1..99, 266..506, 682..819		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31711	Strand	
Start	3447	End	4106

Name	OJ990317_02.9922.C15.o6.tw	Method	TBLASTX:Wheat
Start	3447	End	3824
GI	none	Score	166
Exons	3447..3650, 3464..3565, 3681..3824		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31711	Strand	
Start	3447	End	4106
Name	OJ990317_02.9922.C15.o5.tm	Method	TBLASTX:Maize
Start	3705	End	4106
GI	none	Score	242
Exons	3705..4106		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31712	Strand	
Start	4415	End	4820
Name	OJ990317_02.9922.C15.o7.tm	Method	TBLASTX:Maize
Start	4415	End	4739
GI	none	Score	203
Exons	4415..4528, 4416..4739, 4422..4739		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31712	Strand	
Start	4415	End	4820
Name	OJ990317_02.9922.C15.o5.tw	Method	TBLASTX:Wheat
Start	4421	End	4820
GI	none	Score	163
Exons	4421..4576, 4422..4643, 4652..4813, 4656..4820		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31713	Strand	
Start	4968	End	5406
Name	OJ990317_02.9922.C15.o4.tw	Method	TBLASTX:Wheat
Start	4968	End	5406
GI	none	Score	497
Exons	4968..5405, 4982..5392, 4995..5405, 5011..5406		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31713	Strand	
Start	4968	End	5406
Name	OJ990317_02.9922.C15.o4.tm	Method	TBLASTX:Maize
Start	4985	End	5267
GI	none	Score	327
Exons	4985..5266, 4986..5267, 4986..5267		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31714	Strand	
Start	5426	End	5677
Name	OJ990317_02.9922.C15.o3.ts	Method	TBLASTX:Soybean
Start	5426	End	5593
GI	none	Score	74
Exons	5426..5479, 5443..5565, 5471..5593		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31714	Strand	
Start	5426	End	5677
Name	OJ990317_02.9922.C15.o8.tw	Method	TBLASTX:Wheat

Start	5470	End	5602
GI	none	Score	176
Exons	5470..5565, 5471..5602		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31714	Strand	
Start	5426	End	5677
Name	OJ990317_02.9922.C15.o6.tm	Method	TBLASTX:Maize
Start	5471	End	5677
GI	none	Score	229
Exons	5471..5677, 5488..5673		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31715	Strand	
Start	5608	End	6044
Name	OJ990317_02.9922.C15.o2.tw	Method	TBLASTX:Wheat
Start	5608	End	6034
GI	none	Score	606
Exons	5608..5997, 5609..6034, 5666..6019, 5670..6032		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31715	Strand	
Start	5608	End	6044
Name	OJ990317_02.9922.C15.o2.ts	Method	TBLASTX:Soybean
Start	5615	End	5860
GI	none	Score	213
Exons	5615..5860		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31715	Strand	
Start	5608	End	6044
Name	OJ990317_02.9922.C15.o2.tm	Method	TBLASTX:Maize
Start	5681	End	6044
GI	none	Score	474
Exons	5681..6034, 5683..5982, 5733..6044		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31716	Strand	
Start	6077	End	7423
Name	OJ990317_02.9922.C15.o3.tw	Method	TBLASTX:Wheat
Start	6077	End	6593
GI	none	Score	573
Exons	6077..6592, 6151..6588, 6327..6593		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31716	Strand	
Start	6077	End	7423
Name	OJ990317_02.9922.C15.o1.ts	Method	TBLASTX:Soybean
Start	6394	End	6649
GI	none	Score	235
Exons	6394..6588, 6401..6649		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31716	Strand	
Start	6077	End	7423
Name	OJ990317_02.9922.C15.o3.tm	Method	TBLASTX:Maize
Start	6447	End	6739

GI	none	Score	75
Exons	6447..6581, 6449..6739, 6449..6586, 6460..6630, 6691..6735		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31716	Strand	
Start	6077	End	7423
Name	OJ990317_02.9922.C15.o1.tw	Method	TBLASTX:Wheat
Start	6623	End	7234
GI	none	Score	638
Exons	6623..7234, 6703..7110		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31716	Strand	
Start	6077	End	7423
Name	OJ990317_02.9922.C15.o1.tm	Method	TBLASTX:Maize
Start	6791	End	7384
GI	none	Score	221
Exons	6791..6949, 6796..6942, 6942..7205, 6946..7089, 6947..7384, 7165..7374, 7289..7384		

Seq. No.	14914	Seq. ID	OJ990317_02.9922.C15
Gene No.	31716	Strand	
Start	6077	End	7423
Name	OJ990317_02.9922.C15.o7.tw	Method	TBLASTX:Wheat
Start	7235	End	7423
GI	none	Score	192
Exons	7235..7423		

Seq. No.	14915	Seq. ID	OJ990317_02.9922.C18
Gene No.	31717	Strand	+
Start	182	End	249
Name	OJ990317_02.9922.C18.o1.gs	Method	GENSCAN
Start	182	End	249
GI	none	Score	.94
Exons	182..249		

Seq. No.	14915	Seq. ID	OJ990317_02.9922.C18
Gene No.	31718	Strand	-
Start	801	End	2325
Name	OJ990317_02.9922.C18.o2.gs	Method	GENSCAN
Start	801	End	2325
GI	none	Score	.74
Exons	801..1034, 1846..2055, 2272..2325		

Seq. No.	14916	Seq. ID	OJ990317_02.9922.C21
Gene No.	31719	Strand	+
Start	1422	End	7417
Name	OJ990317_02.9922.C21.o1.np	Method	AAT/NAP
Start	1422	End	7008
GI	606817	Score	900
Exons	1422..1494, 2542..2667, 3011..3072, 3190..3238, 5589..5705, 5828..5881, 6336..6421, 6581..6686, 6877..7008		
GI Descrip.	(U08404) carbonic anhydrase [Oryza sativa] gi|5917783|gb|AAD56038.1|AF182806_1 (AF182806) carbonic anhydrase 3 [Oryza sativa]		

Seq. No.	14916	Seq. ID	OJ990317_02.9922.C21

Gene No.	31719	Strand	+
Start	1422	End	7417
Name	OJ990317_02.9922.C21.o1.gs	Method	GENSCAN
Start	2448	End	7011
GI	none	Score	.84
Exons	2448..2627, 3011..3072, 3190..3290, 3292..3624, 4608..4879, 5589..5768, 5828..5881, 5910..6038, 6336..6421, 6581..6686, 6877..7011		

Seq. No.	14916	Seq. ID	OJ990317_02.9922.C21
Gene No.	31719	Strand	+
Start	1422	End	7417
Name	OJ990317_02.9922.C21.o1.gp	Method	AAT/GAP
Start	3011	End	7417
GI	340_1.R1084	Score	1645
Exons	3011..3072, 3190..3238, 5589..5705, 5828..5881, 6336..6421, 6581..6686, 6877..7306, 7398..7417		
GI Descrip.	'3345477/dbj|BAA31953| 1.0e-131 (AB016283) carbonic anhydrase [Oryza sativa]'		

Seq. No.	14916	Seq. ID	OJ990317_02.9922.C21
Gene No.	31720	Strand	+
Start	10547	End	13153
Name	OJ990317_02.9922.C21.o3.gs	Method	GENSCAN
Start	10547	End	13153
GI	none	Score	.47
Exons	10547..10720, 10789..10880, 10938..10986, 11551..11635, 11869..12975, 12987..13153		

Seq. No.	14916	Seq. ID	OJ990317_02.9922.C21
Gene No.	31721	Strand	-
Start	8349	End	10986
Name	OJ990317_02.9922.C21.o1.tm	Method	TBLASTX:Maize
Start	3010	End	10986
GI	none	Score	77
Exons	3010..3081, 3011..3082, 3190..3237, 3190..3237, 3191..3238, 3191..3238, 5586..5708, 5586..5705, 5587..5628, 5588..5710, 5588..5704, 5643..5705, 5818..5892, 5818..5883, 5825..5884, 5831..5884, 6318..6422, 6329..6433, 6330..6419, 6330..6419, 6334..6402, 6335..6421, 6335..6433, 6581..6688, 6581..6688, 6582..6686, 6582..6686, 6828..7007, 6828..7004, 6874..7008, 6874..7020, 10795..10851, 10801..10851, 10924..10986, 10930..10986		

Seq. No.	14916	Seq. ID	OJ990317_02.9922.C21
Gene No.	31721	Strand	-
Start	8349	End	10986
Name	OJ990317_02.9922.C21.o1.tw	Method	TBLASTX:Wheat
Start	3010	End	10986
GI	none	Score	85
Exons	3010..3081, 3011..3082, 3190..3237, 3191..3238, 5586..5705, 5587..5625, 5588..5704, 5643..5735, 5830..5871, 5831..5872, 10798..10851, 10930..10986		

Seq. No.	14916	Seq. ID	OJ990317_02.9922.C21
Gene No.	31721	Strand	-
Start	8349	End	10986

Name	OJ990317_02.9922.C21.o2.gs	Method	GENSCAN
Start	8349	End	10219
GI	none	Score	.55
Exons	8349..8395, 9736..9765, 9967..10219		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+
Start	1	End	2301
Name	OJ990317_02.9922.C22.o1.np	Method	AAT/NAP
Start	1	End	2301
GI	6466937	Score	1672
Exons	1..2301		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+
Start	1	End	2301
Name	OJ990317_02.9922.C22.o1.gs	Method	GENSCAN
Start	56	End	2217
GI	none	Score	.79
Exons	56..2217		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+
Start	1	End	2301
Name	OJ990317_02.9922.C22.o1.tw	Method	TBLASTX:Wheat
Start	295	End	735
GI	none	Score	355
Exons	295..735, 399..734		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+
Start	1	End	2301
Name	OJ990317_02.9922.C22.o3.ts	Method	TBLASTX:Soybean
Start	331	End	645
GI	none	Score	194
Exons	331..645		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+
Start	1	End	2301
Name	OJ990317_02.9922.C22.o2.tm	Method	TBLASTX:Maize
Start	352	End	831
GI	none	Score	376
Exons	352..831, 352..408, 399..794		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+
Start	1	End	2301
Name	OJ990317_02.9922.C22.o2.ts	Method	TBLASTX:Soybean
Start	787	End	1104
GI	none	Score	299
Exons	787..1104, 831..1001		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+

Start	1	End	2301
Name	OJ990317_02.9922.C22.o2.tw	Method	TBLASTX:Wheat
Start	826	End	1224
GI	none	Score	269
Exons	826..1104, 867..1001, 1108..1224		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+
Start	1	End	2301
Name	OJ990317_02.9922.C22.o1.tm	Method	TBLASTX:Maize
Start	904	End	1323
GI	none	Score	504
Exons	904..1323, 1068..1280		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+
Start	1	End	2301
Name	OJ990317_02.9922.C22.o4.ts	Method	TBLASTX:Soybean
Start	1135	End	1380
GI	none	Score	191
Exons	1135..1380, 1152..1280		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+
Start	1	End	2301
Name	OJ990317_02.9922.C22.o3.tw	Method	TBLASTX:Wheat
Start	1225	End	1563
GI	none	Score	187
Exons	1225..1563		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+
Start	1	End	2301
Name	OJ990317_02.9922.C22.o4.tm	Method	TBLASTX:Maize
Start	1438	End	1832
GI	none	Score	261
Exons	1438..1827, 1479..1595, 1671..1832		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+
Start	1	End	2301
Name	OJ990317_02.9922.C22.o1.ts	Method	TBLASTX:Soybean
Start	1857	End	2193
GI	none	Score	301
Exons	1857..2192, 1870..2193		

Seq. No.	14917	Seq. ID	OJ990317_02.9922.C22
Gene No.	31722	Strand	+
Start	1	End	2301
Name	OJ990317_02.9922.C22.o3.tm	Method	TBLASTX:Maize
Start	1867	End	2193
GI	none	Score	334
Exons	1867..2193, 1867..2067, 1926..2192		

Seq. No.	14918	Seq. ID	OJ990317_02.9922.C23
Gene No.	31723	Strand	+
Start	1	End	3548

Name	OJ990317_02.9922.C23.o1.np	Method	AAT/NAP
Start	1	End	576
GI	3810596	Score	310
Exons	1..576		
GI Descrip.	(AC005398) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14918	Seq. ID	OJ990317_02.9922.C23
Gene No.	31723	Strand	+
Start	1	End	3548
Name	OJ990317_02.9922.C23.o2.np	Method	AAT/NAP
Start	1	End	3337
GI	3345477	Score	325
Exons	1..22, 1106..1228, 1341..1390, 2270..2355, 2576..2702, 3232..3337		
GI Descrip.	(AB016283) carbonic anhydrase [Oryza sativa]		

Seq. No.	14918	Seq. ID	OJ990317_02.9922.C23
Gene No.	31723	Strand	+
Start	1	End	3548
Name	OJ990317_02.9922.C23.o1.gs	Method	GENSCAN
Start	52	End	660
GI	none	Score	.91
Exons	52..660		

Seq. No.	14918	Seq. ID	OJ990317_02.9922.C23
Gene No.	31723	Strand	+
Start	1	End	3548
Name	OJ990317_02.9922.C23.o1.tw	Method	TBLASTX:Wheat
Start	55	End	351
GI	none	Score	185
Exons	55..351		

Seq. No.	14918	Seq. ID	OJ990317_02.9922.C23
Gene No.	31723	Strand	+
Start	1	End	3548
Name	OJ990317_02.9922.C23.o1.tm	Method	TBLASTX:Maize
Start	283	End	624
GI	none	Score	88
Exons	283..351, 286..363, 403..624, 451..612		

Seq. No.	14918	Seq. ID	OJ990317_02.9922.C23
Gene No.	31723	Strand	+
Start	1	End	3548
Name	OJ990317_02.9922.C23.o2.tm	Method	TBLASTX:Maize
Start	1105	End	2683
GI	none	Score	186
Exons	1105..1224, 1107..1223, 1351..1392, 1352..1393, 2267..2353, 2269..2358, 2576..2683, 2577..2681, 2591..2683, 2592..2681		

Seq. No.	14918	Seq. ID	OJ990317_02.9922.C23
Gene No.	31723	Strand	+
Start	1	End	3548
Name	OJ990317_02.9922.C23.o2.tw	Method	TBLASTX:Wheat
Start	1105	End	1378
GI	none	Score	173
Exons	1105..1224, 1106..1225, 1106..1222, 1107..1223, 1352..1378,		

1354..1377

Seq. No.	14918	Seq. ID	OJ990317_02.9922.C23
Gene No.	31723	Strand	+
Start	1	End	3548
Name	OJ990317_02.9922.C23.o2.gs	Method	GENSCAN
Start	1204	End	3548
GI	none	Score	.86
Exons	1204..1224, 1337..1390, 1708..1857, 2270..2355, 2576..2681, 2889..2958, 3478..3548		

Seq. No.	14919	Seq. ID	OJ990317_02.9922.C24
Gene No.	31724	Strand	+
Start	550	End	1815
Name	OJ990317_02.9922.C24.o1.gs	Method	GENSCAN
Start	550	End	1815
GI	none	Score	.49
Exons	550..774, 1642..1815		

Seq. No.	14919	Seq. ID	OJ990317_02.9922.C24
Gene No.	31725	Strand	-
Start	949	End	1109
Name	OJ990317_02.9922.C24.o1.np	Method	AAT/NAP
Start	949	End	1109
GI	5852172	Score	115
Exons	949..1109		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	14919	Seq. ID	OJ990317_02.9922.C24
Gene No.	31726	Strand	-
Start	2126	End	2355
Name	OJ990317_02.9922.C24.o2.gs	Method	GENSCAN
Start	2126	End	2355
GI	none	Score	.6
Exons	2126..2355		

Seq. No.	14920	Seq. ID	OJ990317_02.9922.C25
Gene No.	31727	Strand	-
Start	1071	End	2708
Name	OJ990317_02.9922.C25.o1.gs	Method	GENSCAN
Start	1071	End	2708
GI	none	Score	.89
Exons	1071..2708		

Seq. No.	14920	Seq. ID	OJ990317_02.9922.C25
Gene No.	31728	Strand	-
Start	4082	End	4155
Name	OJ990317_02.9922.C25.o2.tm	Method	TBLASTX:Maize
Start	1431	End	1772
GI	none	Score	101
Exons	1431..1631, 1647..1772		

Seq. No.	14920	Seq. ID	OJ990317_02.9922.C25
Gene No.	31728	Strand	-
Start	4082	End	4155
Name	OJ990317_02.9922.C25.o1.tm	Method	TBLASTX:Maize
Start	2038	End	2747

GI	none	Score	88
Exons	2038..2214, 2049..2213, 2217..2747, 2239..2733		

Seq. No.	14920	Seq. ID	OJ990317_02.9922.C25
Gene No.	31728	Strand	-
Start	4082	End	4155
Name	OJ990317_02.9922.C25.o2.gs	Method	GENSCAN
Start	4082	End	4155
GI	none	Score	.99
Exons	4082..4155		

Seq. No.	14921	Seq. ID	OJ990317_02.9922.C27
Gene No.	31729	Strand	+
Start	938	End	3159
Name	OJ990317_02.9922.C27.o1.gs	Method	GENSCAN
Start	938	End	3159
GI	none	Score	.48
Exons	938..1105, 1776..1815, 2038..2310, 3032..3159		

Seq. No.	14921	Seq. ID	OJ990317_02.9922.C27
Gene No.	31729	Strand	+
Start	938	End	3159
Name	OJ990317_02.9922.C27.o1.gp	Method	AAT/GAP
Start	2038	End	2213
GI	2431489	Score	328
Exons	2038..2213		

Seq. No.	14921	Seq. ID	OJ990317_02.9922.C27
Gene No.	31729	Strand	+
Start	938	End	3159
Name	OJ990317_02.9922.C27.o1.tm	Method	TBLASTX:Maize
Start	2090	End	2214
GI	none	Score	186
Exons	2090..2212, 2091..2213, 2095..2214, 2127..2213		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31730	Strand	+
Start	6135	End	7349
Name	OJ990817_08.9922.C1.o2.gs	Method	GENSCAN
Start	6135	End	7349
GI	none	Score	.89
Exons	6135..6169, 6347..6567, 6697..6806, 7065..7085, 7332..7349		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31730	Strand	+
Start	6135	End	7349
Name	OJ990817_08.9922.C1.o1.np	Method	AAT/NAP
Start	6393	End	7245
GI	6714413	Score	418
Exons	6393..6567, 6697..6806, 6967..7085, 7173..7245		
GI Descrip.	(AC012328) unknown protein [Arabidopsis thaliana]		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31731	Strand	+
Start	14036	End	23188
Name	OJ990817_08.9922.C1.o3.np	Method	AAT/NAP
Start	14036	End	23188

GI	6969231	Score	725
Exons	14036..14148, 14507..14605, 15201..15338, 16467..16724, 18943..19091, 19532..19761, 19952..20029, 20936..21046, 21208..21476, 21594..21726, 22060..22149, 22985..23188		
GI Descrip.	(AF079872) cyclic nucleotide-gated calmodulin-binding ion channel [Nicotiana tabacum]		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31732	Strand	+
Start	25497	End	34994
Name	OJ990817_08.9922.C1.o4.np	Method	AAT/NAP
Start	25497	End	34994
GI	5420389	Score	175
Exons	25497..25744, 26243..26711, 34953..34994		
GI Descrip.	(AJ243460) proteophosphoglycan [Leishmania major]		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31733	Strand	+
Start	40210	End	42109
Name	OJ990817_08.9922.C1.o7.gs	Method	GENSCAN
Start	40210	End	42109
GI	none	Score	.64
Exons	40210..40264, 40759..40801, 41290..41566, 41918..42109		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31734	Strand	+
Start	45343	End	48042
Name	OJ990817_08.9922.C1.o9.gs	Method	GENSCAN
Start	45343	End	48042
GI	none	Score	.67
Exons	45343..46035, 46476..46627, 46822..47268, 48003..48042		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31735	Strand	-
Start	757	End	3413
Name	OJ990817_08.9922.C1.o1.gs	Method	GENSCAN
Start	757	End	3413
GI	none	Score	.5
Exons	757..869, 1294..1640, 1754..2030, 2143..2266, 3338..3413		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31736	Strand	-
Start	7735	End	11974
Name	OJ990817_08.9922.C1.o3.gs	Method	GENSCAN
Start	7735	End	11974
GI	none	Score	.66
Exons	7735..7814, 7864..8054, 8256..8353, 8597..8710, 8780..8837, 8969..9058, 9605..9696, 10089..10199, 10404..10481, 10703..10768, 10916..10933, 11140..11274, 11705..11974		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31736	Strand	-
Start	7735	End	11974
Name	OJ990817_08.9922.C1.o2.np	Method	AAT/NAP
Start	7853	End	11090
GI	5733866	Score	1186
Exons	7853..8054, 8256..8353, 8597..8710, 8780..8837, 8969..9058,		

9605..9696, 10089..10199, 10311..10505, 10703..10768, 10916..11090

GI Descrip. (AC007932) Contains similarity to gb|M73488 1-aminocyclopropane-1-carboxylate deaminase from Pseudomonas sp. ESTs gb|Z18033 and gb|Z34214 come from this gene. [Arabidopsis thaliana]

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31737	Strand	-
Start	25337	End	26831
Name	OJ990817_08.9922.C1.o5.gs	Method	GENSCAN
Start	25337	End	26831
GI	none	Score	.98
Exons	25337..25825, 26262..26831		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31738	Strand	-
Start	28530	End	38148
Name	OJ990817_08.9922.C1.o6.gs	Method	GENSCAN
Start	28530	End	38148
GI	none	Score	.82
Exons	28530..28790, 29041..29449, 29597..29772, 30369..30550, 32324..32468, 33038..33110, 33276..33381, 33415..33424, 33885..34197, 34307..34465, 34570..34763, 34859..34979, 35146..36494, 37093..37257, 38140..38148		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31738	Strand	-
Start	28530	End	38148
Name	OJ990817_08.9922.C1.o5.np	Method	AAT/NAP
Start	32322	End	37133
GI	2462745	Score	713
Exons	32322..32400, 34250..34465, 34570..34763, 34859..35051, 35146..35310, 35713..35901, 37107..37133		

GI Descrip. (AC002292) Hypothetical protein [Arabidopsis thaliana]

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31739	Strand	-
Start	43697	End	44673
Name	OJ990817_08.9922.C1.o8.gs	Method	GENSCAN
Start	43697	End	44673
GI	none	Score	.53
Exons	43697..44049, 44428..44584, 44659..44673		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31740	Strand	-
Start	49117	End	49422
Name	OJ990817_08.9922.C1.o10.gs	Method	GENSCAN
Start	49117	End	49422
GI	none	Score	.94
Exons	49117..49422		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o5.tm	Method	TBLASTX:Maize
Start	6380	End	6570

GI	none	Score	287
Exons	6380..6565, 6381..6566, 6468..6566, 6481..6570		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o8.tc	Method	TBLASTX:Cress
Start	6404	End	7242
GI	none	Score	171
Exons	6404..6565, 6405..6566, 6699..6818, 6955..7086, 6964..7089, 7170..7241, 7171..7242		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o10.ts	Method	TBLASTX:Soybean
Start	6405	End	7239
GI	none	Score	146
Exons	6405..6566, 6410..6565, 6699..6818, 6964..7089, 7171..7239		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o6.tm	Method	TBLASTX:Maize
Start	6699	End	7239
GI	none	Score	91
Exons	6699..6818, 6964..7089, 7162..7239		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o4.tm	Method	TBLASTX:Maize
Start	7836	End	11011
GI	none	Score	277
Exons	7836..8057, 7837..8061, 7838..8056, 7839..8060, 8256..8351, 8258..8350, 8258..8353, 8596..8706, 8597..8710, 8760..8840, 8778..8840, 8812..8841, 8940..9059, 8971..9060, 8971..9057, 9609..9698, 9610..9696, 10075..10200, 10087..10200, 10089..10202, 10305..10502, 10309..10503, 10312..10503, 10664..10783, 10695..10766, 10916..11011, 10917..11009		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o5.ts	Method	TBLASTX:Soybean
Start	7850	End	9072
GI	none	Score	198
Exons	7850..8056, 7854..8057, 8250..8354, 8258..8353, 8597..8707, 8597..8710, 8599..8724, 8760..8867, 8781..8840, 8969..9010, 8971..9012, 9016..9072, 9016..9057		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o7.tc	Method	TBLASTX:Cress
Start	7865	End	8317
GI	none	Score	100

Exons 7865..8002, 7868..8056, 7869..8057, 8258..8317

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o4.tc	Method	TBLASTX:Cress
Start	8592	End	11009
GI	none	Score	56

Exons 8592..8711, 8596..8718, 8597..8710, 8760..8840, 8969..8998, 8971..9006, 9004..9057, 9016..9060, 9596..9682, 9604..9699, 9605..9658, 10090..10200, 10092..10202, 10140..10202, 10297..10503, 10305..10502, 10311..10505, 10664..10783, 10695..10766, 10913..11008, 10926..11009

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o4.ts	Method	TBLASTX:Soybean
Start	10081	End	10999
GI	none	Score	99

Exons 10081..10197, 10083..10199, 10305..10502, 10315..10503, 10318..10503, 10664..10783, 10695..10766, 10913..10999

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o6.ts	Method	TBLASTX:Soybean
Start	16611	End	21379
GI	none	Score	57

Exons 16611..16649, 16616..16714, 16656..16724, 19181..19279, 19198..19278, 19295..19462, 19318..19461, 19592..19762, 19613..19762, 19615..19779, 19929..20030, 19950..20030, 19951..20031, 20928..21077, 20934..21068, 21191..21379, 21232..21378

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o3.tm	Method	TBLASTX:Maize
Start	19360	End	21663
GI	none	Score	151

Exons 19360..19455, 19361..19462, 19376..19462, 19612..19794, 19612..19794, 19929..20030, 19948..20031, 19950..20030, 19951..20031, 20911..21066, 20928..21077, 20934..21074, 21227..21475, 21229..21477, 21229..21474, 21561..21662, 21562..21657, 21562..21663

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o7.ts	Method	TBLASTX:Soybean
Start	21385	End	21706
GI	none	Score	121

Exons 21385..21474, 21389..21472, 21545..21706, 21550..21705

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-

Start	50229	End	53477
Name	OJ990817_08.9922.C1.o8.ts	Method	TBLASTX:Soybean
Start	29155	End	29304
GI	none	Score	107
Exons	29155..29304, 29174..29278		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o8.tm	Method	TBLASTX:Maize
Start	29161	End	29355
GI	none	Score	170
Exons	29161..29355, 29162..29278		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o9.ts	Method	TBLASTX:Soybean
Start	33844	End	34002
GI	none	Score	116
Exons	33844..34002, 33849..33998		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o1.tm	Method	TBLASTX:Maize
Start	33867	End	35247
GI	none	Score	95
Exons	33867..33953, 33867..34199, 33868..34200, 33868..34200, 34247..34465, 34308..34481, 34308..34463, 34309..34464, 34564..34764, 34572..34763, 34573..34764, 34578..34778, 34853..34936, 34866..34931, 34916..35053, 34917..35054, 35134..35247, 35145..35246		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o3.tc	Method	TBLASTX:Cress
Start	33867	End	34176
GI	none	Score	263
Exons	33867..34157, 33880..34176, 33895..34035		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o3.ts	Method	TBLASTX:Soybean
Start	34065	End	35280
GI	none	Score	124
Exons	34065..34199, 34066..34200, 34066..34200, 34301..34387, 34307..34462, 34309..34476, 34566..34769, 34569..34763, 34853..34936, 34889..35053, 34893..35054, 35140..35280, 35145..35279		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o5.tc	Method	TBLASTX:Cress

Start	34176	End	34686
GI	none	Score	75
Exons	34176..34196, 34305..34466, 34306..34467, 34310..34414, 34569..34685, 34570..34686		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o6.tc	Method	TBLASTX:Cress
Start	34943	End	35325
GI	none	Score	86
Exons	34943..35053, 34956..35027, 35143..35325, 35145..35321		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o9.tm	Method	TBLASTX:Maize
Start	48464	End	48670
GI	none	Score	190
Exons	48464..48571, 48467..48610, 48487..48612, 48537..48617, 48614..48670, 48624..48665		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o7.tm	Method	TBLASTX:Maize
Start	49189	End	49410
GI	none	Score	114
Exons	49189..49272, 49189..49227, 49196..49273, 49235..49273, 49274..49393, 49274..49393, 49276..49410, 49279..49395		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o11.gs	Method	GENSCAN
Start	50229	End	53259
GI	none	Score	.74
Exons	50229..50407, 51098..51173, 51673..52293, 52639..53259		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o2.tm	Method	TBLASTX:Maize
Start	51663	End	53477
GI	none	Score	49
Exons	51663..51719, 51758..52294, 51758..51970, 51772..52296, 52022..52297, 52096..52296, 52626..52898, 52636..53262, 52637..53260, 52947..53264, 53367..53477, 53367..53474, 53369..53476, 53412..53477, 53420..53476		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o7.np	Method	AAT/NAP
Start	51664	End	53477
GI	399940	Score	1931
Exons	51664..52293, 52639..53259, 53372..53477		

GI Descrip. HEAT SHOCK 70 KD PROTEIN, MITOCHONDRIAL PRECURSOR
gi|100004|pir||S25005 heat shock protein, 70K - kidney bean
gi|22636|emb|CAA47345| (X66874) 70 kDa heat shock protein
[Phaseolus vulgaris]

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o2.ts	Method	TBLASTX:Soybean
Start	51826	End	52296
GI	none	Score	483
Exons	51826..52296, 51893..52294, 52096..52296		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o1.tw	Method	TBLASTX:Wheat
Start	51870	End	53464
GI	none	Score	35
Exons	51870..51902, 51916..52053, 51981..52031, 52048..52296, 52064..52297, 52636..52797, 52646..52720, 52747..52839, 52784..52909, 52840..53016, 53062..53262, 53210..53260, 53369..53464, 53370..53432		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o2.tc	Method	TBLASTX:Cress
Start	51953	End	52767
GI	none	Score	376
Exons	51953..52294, 51955..52296, 52115..52297, 52117..52296, 52636..52767, 52637..52720		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o1.ts	Method	TBLASTX:Soybean
Start	52636	End	53476
GI	none	Score	122
Exons	52636..52791, 52637..52792, 52637..52843, 52783..53262, 52784..53260, 53369..53476, 53370..53468		

Seq. No.	14922	Seq. ID	OJ990817_08.9922.C1
Gene No.	31741	Strand	-
Start	50229	End	53477
Name	OJ990817_08.9922.C1.o1.tc	Method	TBLASTX:Cress
Start	52837	End	53476
GI	none	Score	477
Exons	52837..53262, 52838..53260, 52852..53262, 52941..53270, 53367..53474, 53369..53476		

Seq. No.	14923	Seq. ID	OJ990817_08.9922.C2
Gene No.	31742	Strand	-
Start	76	End	155
Name	OJ990817_08.9922.C2.o1.gp	Method	AAT/GAP
Start	76	End	155
GI	48916_1.R1084	Score	105

Exons	76..155		
GI Descrip.	'300264/bbs|131379 1.0e-42 (S59747) HSP68=68 kda heat-stress DnaK homolog [Solanum tuberosum=potatoes, Peptide Mitochondrial, 682 aa] [Solanum tuberosum]'		
Seq. No.	14923	Seq. ID	OJ990817_08.9922.C2
Gene No.	31743	Strand	-
Start	82	End	145
Name	OJ990817_08.9922.C2.o1.gs	Method	GENSCAN
Start	82	End	145
GI	none	Score	.5
Exons	82..145		
Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31744	Strand	+
Start	3940	End	9626
Name	OJ990817_08.9922.C3.o2.np	Method	AAT/NAP
Start	3940	End	9626
GI	6730739	Score	207
Exons	3940..4046, 8147..8263, 9026..9108, 9262..9304, 9376..9425, 9484..9626		
GI Descrip.	(AC018849) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31744	Strand	+
Start	3940	End	9626
Name	OJ990817_08.9922.C3.o3.gs	Method	GENSCAN
Start	7167	End	9073
GI	none	Score	.8
Exons	7167..7366, 8152..8275, 9026..9073		
Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31745	Strand	+
Start	10463	End	10882
Name	OJ990817_08.9922.C3.o3.gp	Method	AAT/GAP
Start	10463	End	10882
GI	uC-osf1cyp019e07b1	Score	836
Exons	10463..10882		
GI Descrip.	'3540199 6.0e-30 (AC004260) Putative monosaccharide transport protein [Arabidopsis thaliana]'		
Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31746	Strand	+
Start	11613	End	15564
Name	OJ990817_08.9922.C3.o4.np	Method	AAT/NAP
Start	11613	End	15564
GI	6721516	Score	644
Exons	11613..11837, 13302..13543, 13955..14306, 15539..15564		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		
Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31747	Strand	+
Start	23579	End	24172
Name	OJ990817_08.9922.C3.o5.gs	Method	GENSCAN
Start	23579	End	24172
GI	none	Score	.67
Exons	23579..24172		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31748	Strand	-
Start	1360	End	4255
Name	OJ990817_08.9922.C3.o1.gs	Method	GENSCAN
Start	1360	End	4255
GI	none	Score	.75
Exons	1360..1506, 2079..2130, 2369..2528, 3489..3612, 3720..3791, 3884..4255		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31748	Strand	-
Start	1360	End	4255
Name	OJ990817_08.9922.C3.o1.np	Method	AAT/NAP
Start	2368	End	4159
GI	2833373	Score	704
Exons	2368..2528, 2609..2666, 2757..2827, 3489..3612, 3720..3791, 3884..4159		
GI Descrip.	DNA-3-METHYLADENINE GLYCOSYLASE (3-METHYLADENINE DNA GLYCOSIDASE) gi|429157|emb|CAA53763| (X76169) 3-methyladenine glycosylase [Arabidopsis thaliana]		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31748	Strand	-
Start	1360	End	4255
Name	OJ990817_08.9922.C3.o1.gp	Method	AAT/GAP
Start	2636	End	3999
GI	LIB3434-014-P1-K1-H7	Score	712
Exons	2636..2666, 2757..2827, 3489..3612, 3720..3791, 3884..3999		
GI Descrip.	'2833373/sp|Q39147|3MG_ARATH 7.0e-63 DNA-3-METHYLADENINE GLYCOSYLASE (3-METHYLADENINE DNA GLYCOSIDASE) >gi_429157_emb_CAA53763_ (X76169) 3-methyladenine glycosylase [Arabidopsis thaliana]'		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31749	Strand	-
Start	5582	End	6753
Name	OJ990817_08.9922.C3.o2.gs	Method	GENSCAN
Start	5582	End	6753
GI	none	Score	.81
Exons	5582..6049, 6364..6753		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o5.tm	Method	TBLASTX:Maize
Start	2368	End	2529
GI	none	Score	185
Exons	2368..2529, 2372..2488		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o1.tc	Method	TBLASTX:Cress
Start	2371	End	3982
GI	none	Score	162
Exons	2371..2508, 2372..2494, 2373..2504, 2598..2669, 2608..2667,		

2754..2828, 2755..2829, 3484..3612, 3485..3610, 3495..3611, 3712..3792, 3726..3794, 3857..3982

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o9.tm	Method	TBLASTX:Maize
Start	2567	End	2868
GI	none	Score	101
Exons	2567..2683, 2568..2687, 2574..2693, 2605..2868, 2748..2828		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o4.gs	Method	GENSCAN
Start	9943	End	22651
GI	none	Score	.71
Exons	9943..11163, 11633..11938, 12624..12775, 12863..12935, 13447..13537, 13567..13632, 17449..17546, 17723..18906, 18977..22388, 22565..22651		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o6.tm	Method	TBLASTX:Maize
Start	17449	End	22400
GI	none	Score	79
Exons	17449..17535, 17451..17534, 17529..17558, 21171..21290, 21178..21288, 21384..21491, 21396..21494, 22293..22376, 22309..22377, 22371..22400		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o5.np	Method	AAT/NAP
Start	17716	End	22105
GI	6466937	Score	2350
Exons	17716..22105		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o6.np	Method	AAT/NAP
Start	17716	End	23580
GI	6466937	Score	2345
Exons	17716..22266, 23503..23580		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o4.tm	Method	TBLASTX:Maize
Start	17815	End	18152
GI	none	Score	220

Exons	17815..18039, 17816..18151, 17817..18152		
Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o2.tw	Method	TBLASTX:Wheat
Start	18242	End	18823
GI	none	Score	79
Exons	18242..18370, 18440..18823, 18585..18743		
Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o3.tm	Method	TBLASTX:Maize
Start	18443	End	18938
GI	none	Score	192
Exons	18443..18901, 18492..18938		
Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o3.ts	Method	TBLASTX:Soybean
Start	18671	End	18994
GI	none	Score	114
Exons	18671..18901, 18747..18938, 18953..18994		
Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o8.tm	Method	TBLASTX:Maize
Start	19038	End	19385
GI	none	Score	88
Exons	19038..19286, 19317..19385		
Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o4.tw	Method	TBLASTX:Wheat
Start	19317	End	19643
GI	none	Score	198
Exons	19317..19643		
Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o4.ts	Method	TBLASTX:Soybean
Start	19488	End	19704
GI	none	Score	75
Exons	19488..19700, 19585..19704		
Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o1.tm	Method	TBLASTX:Maize
Start	19494	End	20018
GI	none	Score	101
Exons	19494..19703, 19585..19704, 19767..20018, 19768..20010		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o3.tw	Method	TBLASTX:Wheat
Start	19644	End	20042
GI	none	Score	117
Exons	19644..19703, 19764..20042, 19765..20010		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o1.ts	Method	TBLASTX:Soybean
Start	19764	End	20081
GI	none	Score	106
Exons	19764..20081, 19765..20010		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o2.tm	Method	TBLASTX:Maize
Start	20037	End	20522
GI	none	Score	129
Exons	20037..20522, 20056..20493		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o1.tw	Method	TBLASTX:Wheat
Start	20118	End	20573
GI	none	Score	118
Exons	20118..20405, 20133..20573, 20152..20469		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o2.ts	Method	TBLASTX:Soybean
Start	20223	End	20537
GI	none	Score	221
Exons	20223..20537		

Seq. No.	14924	Seq. ID	OJ990817_08.9922.C3
Gene No.	31750	Strand	-
Start	9943	End	23580
Name	OJ990817_08.9922.C3.o7.tm	Method	TBLASTX:Maize
Start	21666	End	21932
GI	none	Score	40
Exons	21666..21734, 21694..21735, 21726..21932, 21727..21903		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31751	Strand	+
Start	2567	End	5304
Name	OJ990817_08.9922.C4.o1.np	Method	AAT/NAP
Start	2567	End	4684
GI	6729549	Score	967
Exons	2567..2771, 2890..3077, 3225..3407, 3527..3679, 3835..3985, 4261..4373, 4511..4684		

GI Descrip. (AL132977) putative protein [Arabidopsis thaliana]

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31751	Strand	+
Start	2567	End	5304
Name	OJ990817_08.9922.C4.o1.gs	Method	GENSCAN
Start	2570	End	5304
GI	none	Score	.82
Exons	2570..2771, 2890..3077, 3207..3405, 3501..3679, 3835..3985, 4240..4373, 4511..4657, 5209..5304		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31751	Strand	+
Start	2567	End	5304
Name	OJ990817_08.9922.C4.o1.gp	Method	AAT/GAP
Start	3588	End	4396
GI	49071_1.R1084	Score	677
Exons	3588..3679, 3835..3985, 4240..4396		
GI Descrip.	'4835757/gb|AAD30224.1|AC007202_6 2.0e-29 (AC007202) EST gb_AA404917 comes from this gene. [Arabidopsis thaliana]'		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31752	Strand	+
Start	10440	End	11000
Name	OJ990817_08.9922.C4.o3.gs	Method	GENSCAN
Start	10440	End	11000
GI	none	Score	.62
Exons	10440..11000		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31753	Strand	+
Start	12497	End	12983
Name	OJ990817_08.9922.C4.o4.gp	Method	AAT/GAP
Start	12497	End	12983
GI	38533_1.R1084	Score	897
Exons	12497..12983		
GI Descrip.	'4539324/emb|CAB38825.1| 4.0e-09 (AL035679) kinesin like protein [Arabidopsis thaliana]'		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31754	Strand	-
Start	4572	End	4910
Name	OJ990817_08.9922.C4.o2.gp	Method	AAT/GAP
Start	4572	End	4910
GI	3767107	Score	619
Exons	4572..4910		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31755	Strand	-
Start	5023	End	8998
Name	OJ990817_08.9922.C4.o3.gp	Method	AAT/GAP
Start	5023	End	6465
GI	84785_1.R1084	Score	976
Exons	5023..5356, 5984..6052, 6148..6211, 6328..6465		
GI Descrip.	'728777/sp|P40937|AC11_HUMAN 2.0e-12 ACTIVATOR 1 36 KD SUBUNIT (REPLICATION FACTOR C 36 KD SUBUNIT) (A1 36 KD SUBUNIT) (RF-C 36 KD SUBUNIT) (RFC36) >gi_1498257 (L07540) replication factor C,		

36-kDa subunit [Homo sapiens]'

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31755	Strand	-
Start	5023	End	8998
Name	OJ990817_08.9922.C4.o2.np	Method	AAT/NAP
Start	5260	End	8998
GI	6382495	Score	1095
Exons	5260..5356, 5984..6052, 6148..6211, 6328..6457, 6843..6924, 7113..7272, 7365..7441, 7844..8060, 8815..8998		
GI Descrip.	(AC010704) putative replication factor C [Arabidopsis thaliana]		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31755	Strand	-
Start	5023	End	8998
Name	OJ990817_08.9922.C4.o2.gs	Method	GENSCAN
Start	5938	End	8998
GI	none	Score	.78
Exons	5938..6033, 6212..6457, 6843..6924, 7113..7302, 7365..7444, 7844..8060, 8815..8998		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31756	Strand	-
Start	11411	End	12074
Name	OJ990817_08.9922.C4.o4.gs	Method	GENSCAN
Start	11411	End	12074
GI	none	Score	.94
Exons	11411..11628, 11957..12074		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o2.ts	Method	TBLASTX:Soybean
Start	3204	End	3679
GI	none	Score	230
Exons	3204..3413, 3206..3439, 3497..3679		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o1.tc	Method	TBLASTX:Cress
Start	3254	End	4376
GI	none	Score	174
Exons	3254..3406, 3255..3413, 3497..3679, 3829..3981, 3829..3927, 3909..3980, 4242..4376		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o2.tm	Method	TBLASTX:Maize
Start	3303	End	3989
GI	none	Score	115
Exons	3303..3407, 3305..3406, 3497..3679, 3499..3681, 3499..3684, 3570..3686, 3818..3985, 3829..3984, 3832..3987, 3834..3989		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-

Start	12758	End	16030
Name	OJ990817_08.9922.C4.o5.tm	Method	TBLASTX:Maize
Start	4241	End	4708
GI	none	Score	183
Exons	4241..4375, 4242..4376, 4248..4376, 4508..4708, 4508..4690		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o4.ts	Method	TBLASTX:Soybean
Start	4260	End	4657
GI	none	Score	115
Exons	4260..4376, 4508..4657, 4511..4654		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o2.tw	Method	TBLASTX:Wheat
Start	4561	End	4889
GI	none	Score	197
Exons	4561..4689, 4562..4690, 4569..4691, 4848..4889		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o5.ts	Method	TBLASTX:Soybean
Start	5263	End	6398
GI	none	Score	49
Exons	5263..5355, 5974..6051, 5980..6051, 6138..6209, 6151..6210, 6323..6397, 6324..6398		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o4.tm	Method	TBLASTX:Maize
Start	6144	End	7165
GI	none	Score	107
Exons	6144..6209, 6147..6209, 6148..6210, 6322..6462, 6323..6463, 6324..6461, 6325..6462, 6838..6924, 6843..6932, 6843..6923, 7112..7165, 7113..7163		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o3.tc	Method	TBLASTX:Cress
Start	6346	End	7274
GI	none	Score	73
Exons	6346..6438, 6346..6438, 6350..6454, 6354..6455, 6422..6460, 6837..6926, 6840..6926, 6841..6927, 7098..7274, 7111..7269, 7115..7273		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o1.ts	Method	TBLASTX:Soybean
Start	7199	End	8897
GI	none	Score	88

Exons	7199..7273, 7200..7280, 7366..7440, 7367..7435, 7805..8059, 7843..8061, 7870..8061, 7874..8062, 8816..8896, 8817..8897		
Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o6.tm	Method	TBLASTX:Maize
Start	7951	End	9085
GI	none	Score	170
Exons	7951..8061, 7952..8059, 7954..8061, 8816..8899, 8817..8900, 8989..9006, 8992..9006, 9017..9064, 9020..9061, 9047..9085, 9058..9078		
Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o5.gs	Method	GENSCAN
Start	12758	End	15954
GI	none	Score	.66
Exons	12758..13276, 13832..14035, 14138..14185, 14845..15333, 15826..15954		
Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o1.tm	Method	TBLASTX:Maize
Start	12770	End	13983
GI	none	Score	135
Exons	12770..13048, 12771..12899, 12814..12933, 13043..13270, 13047..13184, 13057..13269, 13138..13278, 13855..13983		
Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o3.ts	Method	TBLASTX:Soybean
Start	12780	End	12958
GI	none	Score	129
Exons	12780..12896, 12783..12938, 12788..12901, 12788..12958, 12802..12903		
Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o3.np	Method	AAT/NAP
Start	12792	End	16030
GI	4567271	Score	304
Exons	12792..13276, 13895..14035, 14845..14895, 14983..15098, 15189..15329, 15936..16030		
GI Descrip.	(AC006841) putative kinesin heavy chain [Arabidopsis thaliana]		
Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o2.tc	Method	TBLASTX:Cress
Start	13011	End	14200
GI	none	Score	128
Exons	13011..13184, 13034..13279, 13967..14038, 13983..14039,		

14138..14200, 14138..14197

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o3.tm	Method	TBLASTX:Maize
Start	13985	End	15923
GI	none	Score	73
Exons	13985..14032, 13986..14039, 14120..14191, 14135..14191, 14139..14198, 14842..14895, 14842..14895, 14983..15114, 14984..15067, 15031..15087, 15188..15334, 15190..15333, 15194..15370, 15195..15374, 15825..15923, 15832..15921, 15834..15923		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o5.gp	Method	AAT/GAP
Start	14962	End	16030
GI	uC-osf1cyp024f08b1	Score	880
Exons	14962..15108, 15193..15333, 15826..16030		
GI Descrip.	'5263326/gb|AAD41428.1|AC007727_17 4.0e-14 (AC007727) Similar to gb_U06698 neuronal kinesin heavy chain from Homo sapiens and contains a PF_00225 Kinesin motor domain. EST gb_AA042507 comes from this gene. [Arabidopsis thaliana]'		

Seq. No.	14925	Seq. ID	OJ990817_08.9922.C4
Gene No.	31757	Strand	-
Start	12758	End	16030
Name	OJ990817_08.9922.C4.o1.tw	Method	TBLASTX:Wheat
Start	14974	End	15351
GI	none	Score	80
Exons	14974..15105, 15187..15351, 15191..15346		

Seq. No.	14926	Seq. ID	OJ990817_08.9922.C5
Gene No.	31758	Strand	+
Start	1	End	332
Name	OJ990817_08.9922.C5.o1.np	Method	AAT/NAP
Start	1	End	332
GI	6721517	Score	509
Exons	1..332		
GI Descrip.	(AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]		

Seq. No.	14926	Seq. ID	OJ990817_08.9922.C5
Gene No.	31758	Strand	+
Start	1	End	332
Name	OJ990817_08.9922.C5.o1.tm	Method	TBLASTX:Maize
Start	5	End	283
GI	none	Score	314
Exons	5..283, 6..281		

Seq. No.	14926	Seq. ID	OJ990817_08.9922.C5
Gene No.	31758	Strand	+
Start	1	End	332
Name	OJ990817_08.9922.C5.o1.tw	Method	TBLASTX:Wheat
Start	6	End	332
GI	none	Score	380

Exons	6..320, 14..331, 15..332		
Seq. No.	14926	Seq. ID	OJ990817_08.9922.C5
Gene No.	31758	Strand	+
Start	1	End	332
Name	OJ990817_08.9922.C5.o1.ts	Method	TBLASTX:Soybean
Start	18	End	332
GI	none	Score	199
Exons	18..332		
Seq. No.	14926	Seq. ID	OJ990817_08.9922.C5
Gene No.	31758	Strand	+
Start	1	End	332
Name	OJ990817_08.9922.C5.o1.gs	Method	GENSCAN
Start	30	End	289
GI	none	Score	.61
Exons	30..289		
Seq. No.	14927	Seq. ID	OJ990817_08.9922.C6
Gene No.	31759	Strand	-
Start	1	End	711
Name	OJ990817_08.9922.C6.o1.np	Method	AAT/NAP
Start	1	End	711
GI	6466937	Score	464
Exons	1..711		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	14927	Seq. ID	OJ990817_08.9922.C6
Gene No.	31759	Strand	-
Start	1	End	711
Name	OJ990817_08.9922.C6.o1.tw	Method	TBLASTX:Wheat
Start	5	End	283
GI	none	Score	73
Exons	5..283, 45..203		
Seq. No.	14927	Seq. ID	OJ990817_08.9922.C6
Gene No.	31759	Strand	-
Start	1	End	711
Name	OJ990817_08.9922.C6.o1.gs	Method	GENSCAN
Start	10	End	629
GI	none	Score	.88
Exons	10..366, 437..629		
Seq. No.	14927	Seq. ID	OJ990817_08.9922.C6
Gene No.	31759	Strand	-
Start	1	End	711
Name	OJ990817_08.9922.C6.o1.tm	Method	TBLASTX:Maize
Start	17	End	398
GI	none	Score	160
Exons	17..361, 18..398		
Seq. No.	14927	Seq. ID	OJ990817_08.9922.C6
Gene No.	31759	Strand	-
Start	1	End	711
Name	OJ990817_08.9922.C6.o1.ts	Method	TBLASTX:Soybean
Start	131	End	454

GI	none	Score	113
Exons	131..361, 207..398, 413..454		

Seq. No.	14928	Seq. ID	OJ990817_08.9922.C7
Gene No.	31760	Strand	-
Start	119	End	181
Name	OJ990817_08.9922.C7.o1.gs	Method	GENSCAN
Start	119	End	181
GI	none	Score	1
Exons	119..181		

Seq. No.	14928	Seq. ID	OJ990817_08.9922.C7
Gene No.	31761	Strand	-
Start	119	End	216
Name	OJ990817_08.9922.C7.o1.gp	Method	AAT/GAP
Start	119	End	216
GI	48916_1.R1084	Score	175
Exons	119..216		
GI Descrip.	'300264/bbs|131379 1.0e-42 (S59747) HSP68=68 kda heat-stress DnaK homolog [Solanum tuberosum=potatoes, Peptide Mitochondrial, 682 aa] [Solanum tuberosum]'		

Seq. No.	14929	Seq. ID	OJ990817_08.9922.C8
Gene No.	31762	Strand	-
Start	228	End	461
Name	OJ990817_08.9922.C8.o1.np	Method	AAT/NAP
Start	228	End	461
GI	5042454	Score	75
Exons	228..296, 429..461		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	14930	Seq. ID	OJ990817_05.9922.C2
Gene No.	31763	Strand	-
Start	1	End	774
Name	OJ990817_05.9922.C2.o1.np	Method	AAT/NAP
Start	1	End	774
GI	2129703	Score	58
Exons	1..200, 754..774		
GI Descrip.	receptor kinase - Arabidopsis thaliana gi|2129704|pir||S71184 receptor kinase - Arabidopsis thaliana gi|166692 (M80238) receptor kinase [Arabidopsis thaliana] gi|445123|prf||1908429A receptor kinase [Arabidopsis thaliana]		

Seq. No.	14930	Seq. ID	OJ990817_05.9922.C2
Gene No.	31763	Strand	-
Start	1	End	774
Name	OJ990817_05.9922.C2.o1.gs	Method	GENSCAN
Start	71	End	204
GI	none	Score	.94
Exons	71..204		

Seq. No.	14931	Seq. ID	OJ990817_05.9922.C3
Gene No.	31764	Strand	+
Start	87	End	234
Name	OJ990817_05.9922.C3.o1.gs	Method	GENSCAN
Start	87	End	234
GI	none	Score	.98

Exons	87..234		
Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31765	Strand	-
Start	1	End	4319
Name	OJ990817_05.9922.C4.o1.np	Method	AAT/NAP
Start	1	End	4286
GI	5295971	Score	3380
Exons	1..3229, 3278..4286		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		
Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31765	Strand	-
Start	1	End	4319
Name	OJ990817_05.9922.C4.o1.gs	Method	GENSCAN
Start	31	End	4319
GI	none	Score	.73
Exons	31..4319		
Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31766	Strand	-
Start	6301	End	8747
Name	OJ990817_05.9922.C4.o2.np	Method	AAT/NAP
Start	6257	End	8745
GI	2618699	Score	406
Exons	6257..7473, 8689..8745		
GI Descrip.	(AC002510) unknown protein [Arabidopsis thaliana]		
Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31766	Strand	-
Start	6301	End	8747
Name	OJ990817_05.9922.C4.o2.gs	Method	GENSCAN
Start	6301	End	8747
GI	none	Score	.98
Exons	6301..7493, 7999..8058, 8348..8425, 8588..8747		
Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o1.tc	Method	TBLASTX:Cress
Start	1	End	677
GI	none	Score	82
Exons	1..210, 3..251, 249..374, 271..387, 366..455, 382..456, 486..677, 567..656		
Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o3.ts	Method	TBLASTX:Soybean
Start	3	End	647
GI	none	Score	80
Exons	3..455, 43..180, 271..450, 516..647		
Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-

Start	14177	End	14562
Name	OJ990817_05.9922.C4.o8.tm	Method	TBLASTX:Maize
Start	3	End	248
GI	none	Score	92
Exons	3..248, 121..243		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o1.tm	Method	TBLASTX:Maize
Start	249	End	774
GI	none	Score	130
Exons	249..455, 304..468, 507..707, 513..704, 550..666, 733..774		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o6.tw	Method	TBLASTX:Wheat
Start	402	End	785
GI	none	Score	60
Exons	402..455, 480..668, 696..785		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o6.tm	Method	TBLASTX:Maize
Start	783	End	1217
GI	none	Score	79
Exons	783..1217, 1012..1200		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o1.tw	Method	TBLASTX:Wheat
Start	786	End	1355
GI	none	Score	71
Exons	786..1019, 1008..1355, 1009..1200		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o1.ts	Method	TBLASTX:Soybean
Start	1023	End	1535
GI	5509260	Score	51
Exons	1023..1535, 1027..1092, 1126..1200, 1312..1488		
GI Descrip.	-		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o3.tc	Method	TBLASTX:Cress
Start	1137	End	1401
GI	none	Score	78
Exons	1137..1400, 1315..1401		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-

Start	14177	End	14562
Name	OJ990817_05.9922.C4.o2.tm	Method	TBLASTX:Maize
Start	1226	End	6729
GI	none	Score	129
Exons	1226..1351, 6304..6729, 6335..6463, 6340..6681, 6527..6682		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o2.ts	Method	TBLASTX:Soybean
Start	1866	End	2342
GI	none	Score	140
Exons	1866..2342, 2047..2337		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o2.tc	Method	TBLASTX:Cress
Start	1878	End	2351
GI	none	Score	68
Exons	1878..2351, 2125..2268		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o3.tm	Method	TBLASTX:Maize
Start	1944	End	2373
GI	none	Score	57
Exons	1944..2003, 1944..2006, 2028..2369, 2047..2373		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o2.tw	Method	TBLASTX:Wheat
Start	2016	End	2576
GI	none	Score	124
Exons	2016..2105, 2112..2576, 2122..2361		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o4.ts	Method	TBLASTX:Soybean
Start	2382	End	2711
GI	none	Score	85
Exons	2382..2711, 2470..2685, 2535..2615		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o4.tw	Method	TBLASTX:Wheat
Start	2655	End	3101
GI	none	Score	50
Exons	2655..2735, 2734..2805, 2736..3101, 2884..3081		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562

Name	OJ990817_05.9922.C4.o5.tm	Method	TBLASTX:Maize
Start	2715	End	3185
GI	none	Score	181
Exons	2715..3122, 2920..3123, 3099..3185, 3114..3149		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o7.tm	Method	TBLASTX:Maize
Start	3666	End	3978
GI	none	Score	129
Exons	3666..3977, 3670..3978		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o5.tw	Method	TBLASTX:Wheat
Start	3672	End	4067
GI	none	Score	66
Exons	3672..4067, 3889..4017		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o3.tw	Method	TBLASTX:Wheat
Start	6304	End	6603
GI	none	Score	152
Exons	6304..6603, 6340..6600		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o5.tc	Method	TBLASTX:Cress
Start	6313	End	6672
GI	none	Score	100
Exons	6313..6549, 6565..6672		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o4.tm	Method	TBLASTX:Maize
Start	6751	End	7449
GI	none	Score	137
Exons	6751..6906, 6931..7275, 7055..7282, 7297..7449		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o4.tc	Method	TBLASTX:Cress
Start	6847	End	7216
GI	none	Score	70
Exons	6847..7005, 7000..7215, 7079..7216		

Seq. No.	14932	Seq. ID	OJ990817_05.9922.C4
Gene No.	31767	Strand	-
Start	14177	End	14562
Name	OJ990817_05.9922.C4.o3.np	Method	AAT/NAP

Start	14177	End	14562
GI	5042454	Score	96
Exons	14177..14230, 14471..14562		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31768	Strand	+
Start	595	End	3853
Name	OJ990817_05.9922.C5.o1.gs	Method	GENSCAN
Start	595	End	3853
GI	none	Score	.67
Exons	595..1856, 1952..2630, 2660..3391, 3494..3853		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31768	Strand	+
Start	595	End	3853
Name	OJ990817_05.9922.C5.o1.np	Method	AAT/NAP
Start	595	End	3850
GI	5803259	Score	4997
Exons	595..1856, 1952..3850		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31769	Strand	+
Start	10720	End	14136
Name	OJ990817_05.9922.C5.o3.np	Method	AAT/NAP
Start	10720	End	12762
GI	5922623	Score	194
Exons	10720..10800, 11181..11337, 11505..11580, 12554..12762		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31769	Strand	+
Start	10720	End	14136
Name	OJ990817_05.9922.C5.o3.gs	Method	GENSCAN
Start	11997	End	14136
GI	none	Score	.46
Exons	11997..12134, 12305..12331, 14074..14136		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31770	Strand	-
Start	4491	End	10137
Name	OJ990817_05.9922.C5.o2.np	Method	AAT/NAP
Start	4491	End	10137
GI	6498441	Score	6944
Exons	4491..4772, 4866..6263, 6435..6817, 7010..7349, 7524..7658, 7842..8215, 8279..8742, 9073..10137		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o2.tw	Method	TBLASTX:Wheat

Start	3096	End	7637
GI	none	Score	54
Exons	3096..3197, 7217..7537, 7217..7636, 7224..7637		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o5.tm	Method	TBLASTX:Maize
Start	4488	End	4631
GI	none	Score	117
Exons	4488..4631, 4492..4626		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o7.tw	Method	TBLASTX:Wheat
Start	4500	End	5102
GI	none	Score	81
Exons	4500..4625, 4504..4626, 4792..4962, 4818..5102, 4819..4962, 4999..5097, 5027..5098		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o4.tw	Method	TBLASTX:Wheat
Start	5103	End	5484
GI	none	Score	161
Exons	5103..5483, 5134..5382, 5142..5387, 5428..5484		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o3.tm	Method	TBLASTX:Maize
Start	5310	End	5621
GI	none	Score	200
Exons	5310..5621, 5311..5592		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o8.tw	Method	TBLASTX:Wheat
Start	5814	End	6126
GI	none	Score	70
Exons	5814..6074, 5950..6126		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o2.ts	Method	TBLASTX:Soybean
Start	5874	End	6440
GI	5666795	Score	68
Exons	5874..6074, 6129..6266, 6342..6440		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845

Name	OJ990817_05.9922.C5.o5.tw	Method	TBLASTX:Wheat
Start	6129	End	6563
GI	none	Score	88
Exons	6129..6278, 6130..6267, 6132..6269, 6312..6563, 6322..6498, 6339..6563		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o1.ts	Method	TBLASTX:Soybean
Start	7187	End	7558
GI	none	Score	90
Exons	7187..7558, 7398..7541		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o2.tm	Method	TBLASTX:Maize
Start	7310	End	7694
GI	none	Score	228
Exons	7310..7693, 7329..7694		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o1.tm	Method	TBLASTX:Maize
Start	7721	End	8077
GI	none	Score	129
Exons	7721..8026, 7721..8077, 7731..8042		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o1.tw	Method	TBLASTX:Wheat
Start	7745	End	8208
GI	none	Score	232
Exons	7745..8206, 7751..8206, 7752..8207, 7765..8208		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o3.ts	Method	TBLASTX:Soybean
Start	7802	End	8167
GI	none	Score	122
Exons	7802..7936, 7943..8167		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o3.tw	Method	TBLASTX:Wheat
Start	8399	End	8858
GI	none	Score	171
Exons	8399..8857, 8403..8663, 8721..8858		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845

Name	OJ990817_05.9922.C5.o6.tw	Method	TBLASTX:Wheat
Start	9596	End	9988
GI	none	Score	95
Exons	9596..9853, 9630..9869, 9836..9934, 9837..9917, 9941..9988		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o4.tm	Method	TBLASTX:Maize
Start	9698	End	9983
GI	none	Score	92
Exons	9698..9946, 9699..9983		

Seq. No.	14933	Seq. ID	OJ990817_05.9922.C5
Gene No.	31771	Strand	-
Start	13230	End	13845
Name	OJ990817_05.9922.C5.o4.np	Method	AAT/NAP
Start	13230	End	13845
GI	6815053	Score	193
Exons	13230..13483, 13536..13845		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	14934	Seq. ID	OJ990817_05.9922.C6
Gene No.	31772	Strand	-
Start	1	End	3015
Name	OJ990817_05.9922.C6.o1.np	Method	AAT/NAP
Start	1	End	3015
GI	4557068	Score	268
Exons	1..29, 2703..3015		
GI Descrip.	(AC007045) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	14934	Seq. ID	OJ990817_05.9922.C6
Gene No.	31772	Strand	-
Start	1	End	3015
Name	OJ990817_05.9922.C6.o1.tw	Method	TBLASTX:Wheat
Start	2670	End	2929
GI	none	Score	88
Exons	2670..2732, 2792..2926, 2792..2929, 2799..2927		

Seq. No.	14934	Seq. ID	OJ990817_05.9922.C6
Gene No.	31772	Strand	-
Start	1	End	3015
Name	OJ990817_05.9922.C6.o1.ts	Method	TBLASTX:Soybean
Start	2730	End	2923
GI	none	Score	42
Exons	2730..2795, 2746..2796, 2801..2923, 2802..2909, 2807..2923		

Seq. No.	14935	Seq. ID	OJ990817_05.9922.C7
Gene No.	31773	Strand	+
Start	2057	End	3153
Name	OJ990817_05.9922.C7.o2.gs	Method	GENSCAN
Start	2057	End	3153
GI	none	Score	.83
Exons	2057..2286, 2291..2543, 2596..2688, 3037..3153		

Seq. No.	14935	Seq. ID	OJ990817_05.9922.C7

Gene No.	31774	Strand	+
Start	7189	End	10591
Name	OJ990817_05.9922.C7.o2.np	Method	AAT/NAP
Start	7189	End	10591
GI	4530126	Score	242
Exons	7189..7300, 7709..8384, 10528..10591		
GI Descrip.	(AF078082) receptor-like protein kinase homolog RK20-1 [Phaseolus vulgaris]		

Seq. No.	14935	Seq. ID	OJ990817_05.9922.C7
Gene No.	31774	Strand	+
Start	7189	End	10591
Name	OJ990817_05.9922.C7.o4.gs	Method	GENSCAN
Start	7540	End	10588
GI	none	Score	.77
Exons	7540..8404, 9732..10588		

Seq. No.	14935	Seq. ID	OJ990817_05.9922.C7
Gene No.	31775	Strand	+
Start	11811	End	12608
Name	OJ990817_05.9922.C7.o1.gp	Method	AAT/GAP
Start	11507	End	12027
GI	3760220	Score	948
Exons	11507..12027		

Seq. No.	14935	Seq. ID	OJ990817_05.9922.C7
Gene No.	31775	Strand	+
Start	11811	End	12608
Name	OJ990817_05.9922.C7.o5.gs	Method	GENSCAN
Start	11811	End	12608
GI	none	Score	.94
Exons	11811..11879, 12167..12262, 12561..12608		

Seq. No.	14935	Seq. ID	OJ990817_05.9922.C7
Gene No.	31776	Strand	-
Start	4553	End	5162
Name	OJ990817_05.9922.C7.o3.gs	Method	GENSCAN
Start	4553	End	5162
GI	none	Score	.8
Exons	4553..4681, 4711..4854, 5130..5162		

Seq. No.	14935	Seq. ID	OJ990817_05.9922.C7
Gene No.	31777	Strand	
Start	7639	End	8285
Name	OJ990817_05.9922.C7.o1.tm	Method	TBLASTX:Maize
Start	7639	End	8019
GI	none	Score	45
Exons	7639..7665, 7710..7931, 7714..7932, 7911..7982, 7915..8019		

Seq. No.	14935	Seq. ID	OJ990817_05.9922.C7
Gene No.	31777	Strand	
Start	7639	End	8285
Name	OJ990817_05.9922.C7.o1.ts	Method	TBLASTX:Soybean
Start	7780	End	8247
GI	none	Score	163
Exons	7780..8112, 8161..8247		

Seq. No.	14935	Seq. ID	OJ990817_05.9922.C7
Gene No.	31777	Strand	
Start	7639	End	8285
Name	OJ990817_05.9922.C7.o2.tm	Method	TBLASTX:Maize
Start	8112	End	8285
GI	none	Score	253
Exons	8112..8285, 8113..8283		

Seq. No.	14936	Seq. ID	OJ990817_05.9922.C8
Gene No.	31778	Strand	+
Start	1	End	877
Name	OJ990817_05.9922.C8.o1.gs	Method	GENSCAN
Start	1	End	648
GI	none	Score	.79
Exons	1..168, 280..648		

Seq. No.	14936	Seq. ID	OJ990817_05.9922.C8
Gene No.	31778	Strand	+
Start	1	End	877
Name	OJ990817_05.9922.C8.o1.tc	Method	TBLASTX:Cress
Start	1	End	492
GI	none	Score	125
Exons	1..132, 3..104, 292..492, 354..491		

Seq. No.	14936	Seq. ID	OJ990817_05.9922.C8
Gene No.	31778	Strand	+
Start	1	End	877
Name	OJ990817_05.9922.C8.o1.np	Method	AAT/NAP
Start	1	End	543
GI	3021282	Score	265
Exons	1..122, 249..543		
GI Descrip.	(AL022347) serine/threonine kinase-like protein [Arabidopsis thaliana]		

Seq. No.	14936	Seq. ID	OJ990817_05.9922.C8
Gene No.	31778	Strand	+
Start	1	End	877
Name	OJ990817_05.9922.C8.o1.tm	Method	TBLASTX:Maize
Start	268	End	657
GI	none	Score	72
Exons	268..345, 343..462, 348..449, 466..507, 603..653, 604..657		

Seq. No.	14936	Seq. ID	OJ990817_05.9922.C8
Gene No.	31778	Strand	+
Start	1	End	877
Name	OJ990817_05.9922.C8.o1.ts	Method	TBLASTX:Soybean
Start	268	End	648
GI	none	Score	198
Exons	268..507, 283..411, 351..491, 595..648		

Seq. No.	14936	Seq. ID	OJ990817_05.9922.C8
Gene No.	31778	Strand	+
Start	1	End	877
Name	OJ990817_05.9922.C8.o1.gp	Method	AAT/GAP
Start	345	End	877
GI	3760221	Score	1007
Exons	345..877		

GI Descrip. 2252864 4.0e-11 (AF013294) Similar to receptor kinase [Arabidopsis thaliana]

Seq. No.	14937	Seq. ID	OJ990817_05.9922.C9
Gene No.	31779	Strand	-
Start	1	End	1354
Name	OJ990817_05.9922.C9.o1.np	Method	AAT/NAP
Start	1	End	1354
GI	5042463	Score	219
Exons	1..23, 1123..1354		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	14938	Seq. ID	OJ990817_05.9922.C11
Gene No.	31780	Strand	+
Start	894	End	2951
Name	OJ990817_05.9922.C11.o1.gs	Method	GENSCAN
Start	894	End	2951
GI	none	Score	.49
Exons	894..1923, 1966..2951		

Seq. No.	14938	Seq. ID	OJ990817_05.9922.C11
Gene No.	31780	Strand	+
Start	894	End	2951
Name	OJ990817_05.9922.C11.o1.np	Method	AAT/NAP
Start	1089	End	2951
GI	5441880	Score	735
Exons	1089..1139, 1167..2115, 2557..2601, 2866..2951		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14938	Seq. ID	OJ990817_05.9922.C11
Gene No.	31780	Strand	+
Start	894	End	2951
Name	OJ990817_05.9922.C11.o1.tm	Method	TBLASTX:Maize
Start	1677	End	2258
GI	none	Score	113
Exons	1677..1799, 1682..1795, 1856..2020, 1857..1979, 1974..2138, 2001..2138, 2178..2258		

Seq. No.	14938	Seq. ID	OJ990817_05.9922.C11
Gene No.	31780	Strand	+
Start	894	End	2951
Name	OJ990817_05.9922.C11.o1.tw	Method	TBLASTX:Wheat
Start	1968	End	2351
GI	none	Score	162
Exons	1968..2156, 2146..2313, 2168..2272, 2169..2351, 2169..2339		

Seq. No.	14939	Seq. ID	OJ990817_05.9922.C12
Gene No.	31781	Strand	+
Start	4870	End	8026
Name	OJ990817_05.9922.C12.o2.np	Method	AAT/NAP
Start	4870	End	8026
GI	2443320	Score	966
Exons	4870..4914, 7277..8026		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	14939	Seq. ID	OJ990817_05.9922.C12
Gene No.	31782	Strand	-
Start	4142	End	6748
Name	OJ990817_05.9922.C12.o1.np	Method	AAT/NAP
Start	4142	End	6748
GI	5281016	Score	124
Exons	4142..4253, 4301..4347, 5854..6294, 6599..6748		
GI Descrip.	(Z97339) hydroperoxide lyase (HPOL) like protein [Arabidopsis thaliana]		

Seq. No.	14939	Seq. ID	OJ990817_05.9922.C12
Gene No.	31782	Strand	-
Start	4142	End	6748
Name	OJ990817_05.9922.C12.o2.ts	Method	TBLASTX:Soybean
Start	5849	End	6211
GI	none	Score	79
Exons	5849..5998, 6059..6211, 6092..6211		

Seq. No.	14939	Seq. ID	OJ990817_05.9922.C12
Gene No.	31782	Strand	-
Start	4142	End	6748
Name	OJ990817_05.9922.C12.o2.tm	Method	TBLASTX:Maize
Start	5882	End	6211
GI	none	Score	58
Exons	5882..5977, 5889..5978, 5928..6017, 6059..6211, 6059..6211		

Seq. No.	14939	Seq. ID	OJ990817_05.9922.C12
Gene No.	31783	Strand	
Start	7279	End	7922
Name	OJ990817_05.9922.C12.o1.tm	Method	TBLASTX:Maize
Start	7279	End	7722
GI	none	Score	271
Exons	7279..7722, 7293..7634		

Seq. No.	14939	Seq. ID	OJ990817_05.9922.C12
Gene No.	31783	Strand	
Start	7279	End	7922
Name	OJ990817_05.9922.C12.o1.tw	Method	TBLASTX:Wheat
Start	7281	End	7922
GI	none	Score	745
Exons	7281..7922, 7285..7884, 7290..7886		

Seq. No.	14939	Seq. ID	OJ990817_05.9922.C12
Gene No.	31783	Strand	
Start	7279	End	7922
Name	OJ990817_05.9922.C12.o1.ts	Method	TBLASTX:Soybean
Start	7510	End	7818
GI	none	Score	185
Exons	7510..7737, 7512..7736, 7738..7818		

Seq. No.	14940	Seq. ID	OJ990817_05.9922.C13
Gene No.	31784	Strand	-
Start	1	End	341
Name	OJ990817_05.9922.C13.o1.np	Method	AAT/NAP
Start	1	End	341
GI	2618699	Score	185
Exons	1..341		

GI Descrip. (AC002510) unknown protein [Arabidopsis thaliana]

Seq. No.	14940	Seq. ID	OJ990817_05.9922.C13
Gene No.	31784	Strand	-
Start	1	End	341
Name	OJ990817_05.9922.C13.o1.gs	Method	GENSCAN
Start	27	End	242
GI	none	Score	.98
Exons	27..242		

Seq. No.	14940	Seq. ID	OJ990817_05.9922.C13
Gene No.	31784	Strand	-
Start	1	End	341
Name	OJ990817_05.9922.C13.o1.tm	Method	TBLASTX:Maize
Start	30	End	339
GI	none	Score	129
Exons	30..338, 61..189, 66..335, 253..339		

Seq. No.	14940	Seq. ID	OJ990817_05.9922.C13
Gene No.	31784	Strand	-
Start	1	End	341
Name	OJ990817_05.9922.C13.o1.tw	Method	TBLASTX:Wheat
Start	30	End	329
GI	none	Score	152
Exons	30..329, 66..326		

Seq. No.	14940	Seq. ID	OJ990817_05.9922.C13
Gene No.	31784	Strand	-
Start	1	End	341
Name	OJ990817_05.9922.C13.o1.tc	Method	TBLASTX:Cress
Start	39	End	275
GI	none	Score	184
Exons	39..275		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31785	Strand	+
Start	1	End	15431
Name	OJ990817_05.9922.C14.o1.np	Method	AAT/NAP
Start	1	End	2045
GI	4680203	Score	999
Exons	1..311, 354..446, 600..827, 1104..2045		

GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31785	Strand	+
Start	1	End	15431
Name	OJ990817_05.9922.C14.o1.gs	Method	GENSCAN
Start	12	End	8586
GI	none	Score	.52
Exons	12..577, 1064..1385, 1485..1989, 2367..2462, 2789..3101, 4559..4644, 4733..5466, 5545..6006, 6088..6248, 6369..6920, 7003..7173, 8478..8586		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31785	Strand	+
Start	1	End	15431
Name	OJ990817_05.9922.C14.o1.gp	Method	AAT/GAP

Start	702	End	2159
GI	5002953	Score	1231
Exons	702..830, 1089..1498, 1978..2159		
GI Descrip.	4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31785	Strand	+
Start	1	End	15431
Name	OJ990817_05.9922.C14.o2.np	Method	AAT/NAP
Start	2541	End	15431
GI	1076802	Score	475
Exons	2541..3067, 6356..6538, 9682..10464, 12020..12258, 13366..13467, 15258..15431		
GI Descrip.	extensin-like protein - maize gi|600118|emb|CAA84230| (Z34465) extensin-like protein [Zea mays] gi|1096557|prf||2111476A extensin-like domain [Zea mays]		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31785	Strand	+
Start	1	End	15431
Name	OJ990817_05.9922.C14.o2.gp	Method	AAT/GAP
Start	7329	End	7849
GI	LIB3431-001-P1-N1-B5	Score	770
Exons	7329..7511, 7617..7849		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31786	Strand	+
Start	16260	End	20404
Name	OJ990817_05.9922.C14.o3.np	Method	AAT/NAP
Start	16163	End	17874
GI	4098238	Score	746
Exons	16163..16940, 17577..17874		
GI Descrip.	(U76384) o-methyltransferase [Triticum aestivum]		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31786	Strand	+
Start	16260	End	20404
Name	OJ990817_05.9922.C14.o4.gs	Method	GENSCAN
Start	16260	End	20404
GI	none	Score	.62
Exons	16260..16940, 17577..17652, 17987..18038, 19011..19097, 19761..19838, 20227..20404		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31786	Strand	+
Start	16260	End	20404
Name	OJ990817_05.9922.C14.o3.gp	Method	AAT/GAP
Start	19601	End	20144
GI	3759725	Score	870
Exons	19601..19921, 19995..20144		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31787	Strand	-
Start	9622	End	12251

Name	OJ990817_05.9922.C14.o2.gs	Method	GENSCAN
Start	9622	End	12251
GI	none	Score	.46
Exons	9622..9800, 9947..10270, 10319..10366, 11933..12251		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31788	Strand	-
Start	19437	End	24598
Name	OJ990817_05.9922.C14.o1.ts	Method	TBLASTX:Soybean
Start	3	End	224
GI	none	Score	235
Exons	3..224, 8..145		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31788	Strand	-
Start	19437	End	24598
Name	OJ990817_05.9922.C14.o2.tw	Method	TBLASTX:Wheat
Start	363	End	725
GI	none	Score	176
Exons	363..590, 392..556, 635..724, 636..725		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31788	Strand	-
Start	19437	End	24598
Name	OJ990817_05.9922.C14.o3.tm	Method	TBLASTX:Maize
Start	369	End	584
GI	none	Score	166
Exons	369..515, 398..505, 522..584		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31788	Strand	-
Start	19437	End	24598
Name	OJ990817_05.9922.C14.o1.tw	Method	TBLASTX:Wheat
Start	744	End	1934
GI	none	Score	477
Exons	744..1256, 758..1204, 1275..1436, 1292..1432, 1449..1631, 1475..1615, 1620..1667, 1671..1712, 1674..1712, 1736..1813, 1737..1841, 1842..1934		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31788	Strand	-
Start	19437	End	24598
Name	OJ990817_05.9922.C14.o2.tm	Method	TBLASTX:Maize
Start	755	End	1070
GI	none	Score	269
Exons	755..1030, 756..1070		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31788	Strand	-
Start	19437	End	24598
Name	OJ990817_05.9922.C14.o1.tc	Method	TBLASTX:Cress
Start	1001	End	1427
GI	none	Score	209
Exons	1001..1204, 1005..1256, 1275..1427, 1292..1414		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31788	Strand	-

Start	19437	End	24598
Name	OJ990817_05.9922.C14.o2.ts	Method	TBLASTX:Soybean
Start	16209	End	17883
GI	none	Score	135
Exons	16209..16433, 16733..16936, 16734..16940, 17579..17689, 17580..17690, 17716..17883, 17739..17873		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31788	Strand	-
Start	19437	End	24598
Name	OJ990817_05.9922.C14.o1.tm	Method	TBLASTX:Maize
Start	16221	End	17877
GI	none	Score	169
Exons	16221..16424, 16253..16417, 16430..16474, 16431..16487, 16584..16733, 16590..16736, 16730..16939, 16734..16940, 17571..17690, 17579..17692, 17580..17693, 17728..17877, 17730..17876		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31788	Strand	-
Start	19437	End	24598
Name	OJ990817_05.9922.C14.o3.tw	Method	TBLASTX:Wheat
Start	16697	End	17883
GI	none	Score	33
Exons	16697..16717, 16729..16839, 16734..16859, 16734..16847, 16865..16942, 16866..16949, 17579..17692, 17580..17693, 17710..17883, 17763..17876		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31788	Strand	-
Start	19437	End	24598
Name	OJ990817_05.9922.C14.o4.np	Method	AAT/NAP
Start	19437	End	21853
GI	2736513	Score	126
Exons	19437..20231, 21795..21853		
GI Descrip.	(AF039052) No definition line found [Caenorhabditis elegans]		

Seq. No.	14941	Seq. ID	OJ990817_05.9922.C14
Gene No.	31788	Strand	-
Start	19437	End	24598
Name	OJ990817_05.9922.C14.o5.gs	Method	GENSCAN
Start	20946	End	24598
GI	none	Score	.71
Exons	20946..20980, 21776..21897, 21937..22077, 23576..23619, 24307..24394, 24522..24598		

Seq. No.	14942	Seq. ID	OJ990817_05.9922.C15
Gene No.	31789	Strand	+
Start	301	End	815
Name	OJ990817_05.9922.C15.o1.gs	Method	GENSCAN
Start	301	End	815
GI	none	Score	.87
Exons	301..815		

Seq. No.	14942	Seq. ID	OJ990817_05.9922.C15
Gene No.	31790	Strand	-
Start	1345	End	1476

Name	OJ990817_05.9922.C15.o2.gs	Method	GENSCAN
Start	1345	End	1476
GI	none	Score	.5
Exons	1345..1476		

Seq. No.	14943	Seq. ID	OJ990817_05.9922.C16
Gene No.	31791	Strand	-
Start	512	End	2170
Name	OJ990817_05.9922.C16.o1.gs	Method	GENSCAN
Start	512	End	2170
GI	none	Score	.69
Exons	512..606, 1477..1576, 1625..1834, 2019..2170		

Seq. No.	14944	Seq. ID	OJ990817_05.9922.C17
Gene No.	31792	Strand	+
Start	1	End	2260
Name	OJ990817_05.9922.C17.o1.np	Method	AAT/NAP
Start	1	End	2260
GI	6721516	Score	34
Exons	1..33, 391..497, 2205..2260		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14944	Seq. ID	OJ990817_05.9922.C17
Gene No.	31792	Strand	+
Start	1	End	2260
Name	OJ990817_05.9922.C17.o1.gs	Method	GENSCAN
Start	328	End	410
GI	none	Score	.73
Exons	328..410		

Seq. No.	14944	Seq. ID	OJ990817_05.9922.C17
Gene No.	31793	Strand	-
Start	3011	End	3641
Name	OJ990817_05.9922.C17.o2.gs	Method	GENSCAN
Start	3011	End	3641
GI	none	Score	.55
Exons	3011..3118, 3585..3641		

Seq. No.	14945	Seq. ID	OJ990817_05.9922.C18
Gene No.	31794	Strand	+
Start	31	End	1280
Name	OJ990817_05.9922.C18.o1.gs	Method	GENSCAN
Start	31	End	1271
GI	none	Score	.73
Exons	31..159, 262..465, 789..831, 942..1097, 1225..1271		

Seq. No.	14945	Seq. ID	OJ990817_05.9922.C18
Gene No.	31794	Strand	+
Start	31	End	1280
Name	OJ990817_05.9922.C18.o1.np	Method	AAT/NAP
Start	247	End	1280
GI	5441880	Score	158
Exons	247..546, 636..865, 1136..1280		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31795	Strand	+
Start	57	End	7820
Name	OJ990817_05.9922.C23.o1.gs	Method	GENSCAN
Start	57	End	1583
GI	none	Score	.7
Exons	57..1583		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31795	Strand	+
Start	57	End	7820
Name	OJ990817_05.9922.C23.o1.np	Method	AAT/NAP
Start	459	End	694
GI	2832636	Score	122
Exons	459..694		
GI Descrip.	(AL021711) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31795	Strand	+
Start	57	End	7820
Name	OJ990817_05.9922.C23.o2.np	Method	AAT/NAP
Start	459	End	683
GI	2832636	Score	119
Exons	459..683		
GI Descrip.	(AL021711) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31795	Strand	+
Start	57	End	7820
Name	OJ990817_05.9922.C23.o3.np	Method	AAT/NAP
Start	1286	End	7820
GI	5295971	Score	413
Exons	1286..1311, 2838..3718, 7768..7820		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31795	Strand	+
Start	57	End	7820
Name	OJ990817_05.9922.C23.o2.gs	Method	GENSCAN
Start	2549	End	3719
GI	none	Score	.51
Exons	2549..2599, 2865..3719		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31795	Strand	+
Start	57	End	7820
Name	OJ990817_05.9922.C23.o5.np	Method	AAT/NAP
Start	4487	End	6885
GI	4314356	Score	320
Exons	4487..4511, 6205..6885		
GI Descrip.	(AC006340) putative anthocyanidin-3-glucoside rhamnosyltransferase [Arabidopsis thaliana]		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-

Start	4078	End	5699
Name	OJ990817_05.9922.C23.o6.tm	Method	TBLASTX:Maize
Start	3	End	356
GI	none	Score	53
Exons	3..176, 4..87, 5..205, 6..200, 146..205, 300..356		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-
Start	4078	End	5699
Name	OJ990817_05.9922.C23.o5.tw	Method	TBLASTX:Wheat
Start	2886	End	3221
GI	none	Score	192
Exons	2886..3221		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-
Start	4078	End	5699
Name	OJ990817_05.9922.C23.o4.np	Method	AAT/NAP
Start	4078	End	5632
GI	130582	Score	1445
Exons	4078..5632		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi|100342|pir||S04273 hypothetical protein - common tobacco gi|20045|emb|CAA32025| (X13777) ORF [Nicotiana tabacum]		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-
Start	4078	End	5699
Name	OJ990817_05.9922.C23.o1.tm	Method	TBLASTX:Maize
Start	4087	End	4497
GI	none	Score	230
Exons	4087..4119, 4126..4488, 4132..4497, 4133..4495		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-
Start	4078	End	5699
Name	OJ990817_05.9922.C23.o2.ts	Method	TBLASTX:Soybean
Start	4132	End	4686
GI	none	Score	39
Exons	4132..4299, 4199..4240, 4318..4599, 4337..4543, 4579..4686, 4580..4672		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-
Start	4078	End	5699
Name	OJ990817_05.9922.C23.o3.tw	Method	TBLASTX:Wheat
Start	4135	End	4528
GI	none	Score	60
Exons	4135..4299, 4159..4290, 4318..4521, 4343..4528		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-
Start	4078	End	5699
Name	OJ990817_05.9922.C23.o2.tm	Method	TBLASTX:Maize
Start	4553	End	5001
GI	none	Score	203

Exons	4553..4864, 4558..4863, 4848..5000, 4909..5001		
Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-
Start	4078	End	5699
Name	OJ990817_05.9922.C23.o2.tw	Method	TBLASTX:Wheat
Start	4648	End	5270
GI	none	Score	56
Exons	4648..4869, 4667..4831, 4893..5084, 4894..5028, 5121..5270		
Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-
Start	4078	End	5699
Name	OJ990817_05.9922.C23.o3.tm	Method	TBLASTX:Maize
Start	5004	End	5442
GI	none	Score	147
Exons	5004..5426, 5137..5442		
Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-
Start	4078	End	5699
Name	OJ990817_05.9922.C23.o1.ts	Method	TBLASTX:Soybean
Start	5019	End	5408
GI	none	Score	95
Exons	5019..5408, 5057..5314, 5064..5387, 5113..5388		
Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-
Start	4078	End	5699
Name	OJ990817_05.9922.C23.o1.gp	Method	AAT/GAP
Start	5031	End	5273
GI	1621494	Score	430
Exons	5031..5273		
GI Descrip.	1621495/dbj|BAA12903| 4.0e-35 (D85877) reverse transcriptase [Oryza sativa]		
Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-
Start	4078	End	5699
Name	OJ990817_05.9922.C23.o2.tc	Method	TBLASTX:Cress
Start	5226	End	5429
GI	none	Score	80
Exons	5226..5429, 5226..5429		
Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31796	Strand	-
Start	4078	End	5699
Name	OJ990817_05.9922.C23.o1.tw	Method	TBLASTX:Wheat
Start	5272	End	5699
GI	none	Score	418
Exons	5272..5688, 5274..5699		
Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31797	Strand	
Start	5833	End	6151
Name	OJ990817_05.9922.C23.o4.tm	Method	TBLASTX:Maize
Start	5833	End	6151

GI	none	Score	203
Exons	5833..5931, 5837..5968, 5841..5987, 5842..5988, 5853..6002, 5973..6149, 6041..6151, 6060..6149		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31798	Strand	
Start	6286	End	6873
Name	OJ990817_05.9922.C23.o5.tm	Method	TBLASTX:Maize
Start	6286	End	6660
GI	none	Score	130
Exons	6286..6438, 6295..6456, 6447..6644, 6463..6660		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31798	Strand	
Start	6286	End	6873
Name	OJ990817_05.9922.C23.o1.tc	Method	TBLASTX:Cress
Start	6292	End	6762
GI	none	Score	112
Exons	6292..6456, 6447..6632, 6448..6762		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31798	Strand	
Start	6286	End	6873
Name	OJ990817_05.9922.C23.o4.tw	Method	TBLASTX:Wheat
Start	6292	End	6528
GI	none	Score	168
Exons	6292..6444, 6298..6435, 6463..6528		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31798	Strand	
Start	6286	End	6873
Name	OJ990817_05.9922.C23.o3.ts	Method	TBLASTX:Soybean
Start	6298	End	6873
GI	none	Score	93
Exons	6298..6432, 6447..6779, 6463..6774, 6763..6873		

Seq. No.	14946	Seq. ID	OJ990817_05.9922.C23
Gene No.	31798	Strand	
Start	6286	End	6873
Name	OJ990817_05.9922.C23.o7.tm	Method	TBLASTX:Maize
Start	6666	End	6873
GI	none	Score	187
Exons	6666..6860, 6667..6873		

Seq. No.	14947	Seq. ID	OJ990817_05.9922.C24
Gene No.	31799	Strand	+
Start	1	End	738
Name	OJ990817_05.9922.C24.o1.np	Method	AAT/NAP
Start	1	End	738
GI	6691191	Score	639
Exons	1..738		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	14947	Seq. ID	OJ990817_05.9922.C24
Gene No.	31799	Strand	+
Start	1	End	738
Name	OJ990817_05.9922.C24.o1.tw	Method	TBLASTX:Wheat

Start	1	End	383
GI	none	Score	67
Exons	1..84, 67..294, 98..295, 297..383, 299..382		

Seq. No.	14947	Seq. ID	OJ990817_05.9922.C24
Gene No.	31799	Strand	+
Start	1	End	738
Name	OJ990817_05.9922.C24.o1.ts	Method	TBLASTX:Soybean
Start	67	End	404
GI	none	Score	162
Exons	67..297, 98..295, 291..392, 297..404, 305..400		

Seq. No.	14948	Seq. ID	OJ990817_05.9922.C26
Gene No.	31800	Strand	-
Start	52	End	165
Name	OJ990817_05.9922.C26.o1.gs	Method	GENSCAN
Start	52	End	165
GI	none	Score	.4
Exons	52..165		

Seq. No.	14949	Seq. ID	OJ990817_04.9921.C1
Gene No.	31801	Strand	+
Start	1	End	342
Name	OJ990817_04.9921.C1.o1.np	Method	AAT/NAP
Start	1	End	342
GI	6721516	Score	197
Exons	1..342		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14949	Seq. ID	OJ990817_04.9921.C1
Gene No.	31802	Strand	-
Start	125	End	242
Name	OJ990817_04.9921.C1.o1.gs	Method	GENSCAN
Start	125	End	242
GI	none	Score	.91
Exons	125..242		

Seq. No.	14950	Seq. ID	OJ990817_04.9921.C2
Gene No.	31803	Strand	+
Start	1	End	907
Name	OJ990817_04.9921.C2.o1.np	Method	AAT/NAP
Start	1	End	907
GI	4510426	Score	252
Exons	1..481, 563..626, 704..801, 867..907		
GI Descrip.	(AC006929) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14950	Seq. ID	OJ990817_04.9921.C2
Gene No.	31803	Strand	+
Start	1	End	907
Name	OJ990817_04.9921.C2.o1.ts	Method	TBLASTX:Soybean
Start	18	End	800
GI	none	Score	37
Exons	18..77, 129..218, 270..482, 558..626, 567..629, 568..627, 692..766, 698..784, 702..800		

Seq. No.	14950	Seq. ID	OJ990817_04.9921.C2
Gene No.	31803	Strand	+

Start	1	End	907
Name	OJ990817_04.9921.C2.o1.tm	Method	TBLASTX:Maize
Start	288	End	624
GI	none	Score	279
Exons	288..482, 295..483, 301..483, 562..624	558..623, 560..595, 561..623,	

Seq. No.	14950	Seq. ID	OJ990817_04.9921.C2
Gene No.	31803	Strand	+
Start	1	End	907
Name	OJ990817_04.9921.C2.o1.gp	Method	AAT/GAP
Start	340	End	811
GI	uC-osroM202033g02b1	Score	514
Exons	340..481, 563..626, 704..811		
GI Descrip.	'4510426/gb|AAD21512.1| 4.0e-33 (AC006929) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	14951	Seq. ID	OJ990817_04.9921.C3
Gene No.	31804	Strand	-
Start	1	End	629
Name	OJ990817_04.9921.C3.o1.np	Method	AAT/NAP
Start	1	End	629
GI	4586116	Score	461
Exons	1..45, 202..629		
GI Descrip.	(AL049638) putative C-4 sterol methyl oxidase [Arabidopsis thaliana]		

Seq. No.	14951	Seq. ID	OJ990817_04.9921.C3
Gene No.	31804	Strand	-
Start	1	End	629
Name	OJ990817_04.9921.C3.o1.ts	Method	TBLASTX:Soybean
Start	324	End	629
GI	none	Score	214
Exons	324..584, 325..627, 325..549, 326..565, 330..629		

Seq. No.	14951	Seq. ID	OJ990817_04.9921.C3
Gene No.	31804	Strand	-
Start	1	End	629
Name	OJ990817_04.9921.C3.o1.tm	Method	TBLASTX:Maize
Start	325	End	629
GI	none	Score	139
Exons	325..549, 326..475, 328..627, 329..568, 330..629		

Seq. No.	14951	Seq. ID	OJ990817_04.9921.C3
Gene No.	31804	Strand	-
Start	1	End	629
Name	OJ990817_04.9921.C3.o1.gp	Method	AAT/GAP
Start	328	End	542
GI	79169_1.R1084	Score	393
Exons	328..542		
GI Descrip.	'4680189/gb|AF111710.1|AF111710 3.0e-34 Oryza sativa subsp. indica putative dnaJ-like protein, putative myb-related protein, putative farnesyl pyrophosphate synthase, and hypothetical protein genes, complete cds'		

Seq. No.	14951	Seq. ID	OJ990817_04.9921.C3
Gene No.	31804	Strand	-

Start	1	End	629
Name	OJ990817_04.9921.C3.o1.gs	Method	GENSCAN
Start	328	End	605
GI	none	Score	.9
Exons	328..605		

Seq. No.	14951	Seq. ID	OJ990817_04.9921.C3
Gene No.	31804	Strand	-
Start	1	End	629
Name	OJ990817_04.9921.C3.o1.tc	Method	TBLASTX:Cress
Start	328	End	609
GI	none	Score	192
Exons	328..609, 330..608, 333..461		

Seq. No.	14952	Seq. ID	OJ990817_04.9921.C4
Gene No.	31805	Strand	+
Start	678	End	1642
Name	OJ990817_04.9921.C4.o1.gs	Method	GENSCAN
Start	678	End	1642
GI	none	Score	.59
Exons	678..1068, 1327..1642		

Seq. No.	14952	Seq. ID	OJ990817_04.9921.C4
Gene No.	31806	Strand	-
Start	478	End	1421
Name	OJ990817_04.9921.C4.o1.tm	Method	TBLASTX:Maize
Start	348	End	508
GI	none	Score	167
Exons	348..494, 356..508, 374..502		

Seq. No.	14952	Seq. ID	OJ990817_04.9921.C4
Gene No.	31806	Strand	-
Start	478	End	1421
Name	OJ990817_04.9921.C4.o1.gp	Method	AAT/GAP
Start	478	End	1421
GI	4879106	Score	609
Exons	478..605, 1218..1421		

Seq. No.	14953	Seq. ID	OJ990817_04.9921.C5
Gene No.	31807	Strand	-
Start	205	End	349
Name	OJ990817_04.9921.C5.o1.gs	Method	GENSCAN
Start	205	End	349
GI	none	Score	.61
Exons	205..349		

Seq. No.	14954	Seq. ID	OJ990817_04.9921.C6
Gene No.	31808	Strand	+
Start	1	End	364
Name	OJ990817_04.9921.C6.o1.np	Method	AAT/NAP
Start	1	End	364
GI	3608412	Score	290
Exons	1..364		
GI Descrip.	(AF079355) protein phosphatase-2c [Mesembryanthemum crystallinum]		

Seq. No.	14954	Seq. ID	OJ990817_04.9921.C6

Gene No.	31808	Strand	+
Start	1	End	364
Name	OJ990817_04.9921.C6.o1.ts	Method	TBLASTX:Soybean
Start	47	End	326
GI	none	Score	62
Exons	47..322, 71..181, 75..323, 75..326		

Seq. No.	14954	Seq. ID	OJ990817_04.9921.C6
Gene No.	31808	Strand	+
Start	1	End	364
Name	OJ990817_04.9921.C6.o1.gs	Method	GENSCAN
Start	52	End	320
GI	none	Score	.51
Exons	52..320		

Seq. No.	14954	Seq. ID	OJ990817_04.9921.C6
Gene No.	31808	Strand	+
Start	1	End	364
Name	OJ990817_04.9921.C6.o1.gp	Method	AAT/GAP
Start	63	End	324
GI	34996_1.R1084	Score	449
Exons	63..324		
GI Descrip.	'4467139/emb|CAB37508| 1.0e-65 (AL035540) putative protein phosphatase-2c [Arabidopsis thaliana]'		

Seq. No.	14954	Seq. ID	OJ990817_04.9921.C6
Gene No.	31808	Strand	+
Start	1	End	364
Name	OJ990817_04.9921.C6.o1.tm	Method	TBLASTX:Maize
Start	71	End	334
GI	none	Score	354
Exons	71..334, 72..320, 220..321		

Seq. No.	14954	Seq. ID	OJ990817_04.9921.C6
Gene No.	31808	Strand	+
Start	1	End	364
Name	OJ990817_04.9921.C6.o1.tc	Method	TBLASTX:Cress
Start	72	End	320
GI	none	Score	316
Exons	72..320, 92..301		

Seq. No.	14955	Seq. ID	OJ990817_04.9921.C8
Gene No.	31809	Strand	-
Start	1670	End	1793
Name	OJ990817_04.9921.C8.o1.gs	Method	GENSCAN
Start	1670	End	1793
GI	none	Score	.65
Exons	1670..1793		

Seq. No.	14955	Seq. ID	OJ990817_04.9921.C8
Gene No.	31810	Strand	-
Start	1831	End	1896
Name	OJ990817_04.9921.C8.o1.gp	Method	AAT/GAP
Start	1831	End	1896
GI	26906_2.R1084	Score	97
Exons	1831..1896		
GI Descrip.	'4680488/gb|AF119222.1|AF119222 4.0e-33 Oryza sativa BAC clone		

1.H19, complete sequence'

Seq. No.	14956	Seq. ID	OJ990817_04.9921.C9
Gene No.	31811	Strand	-
Start	294	End	4089
Name	OJ990817_04.9921.C9.o1.gs	Method	GENSCAN
Start	294	End	4089
GI	none	Score	.53
Exons	294..528, 1785..1952, 2085..2249, 2372..2450, 3839..4089		

Seq. No.	14956	Seq. ID	OJ990817_04.9921.C9
Gene No.	31811	Strand	-
Start	294	End	4089
Name	OJ990817_04.9921.C9.o1.np	Method	AAT/NAP
Start	1766	End	2808
GI	6630733	Score	83
Exons	1766..2115, 2612..2808		
GI Descrip.	(AL132958) Cytochrom P450-like protein [Arabidopsis thaliana]		

Seq. No.	14957	Seq. ID	OJ990817_04.9921.C10
Gene No.	31812	Strand	+
Start	1	End	679
Name	OJ990817_04.9921.C10.o1.np	Method	AAT/NAP
Start	1	End	679
GI	6721516	Score	104
Exons	1..173, 470..679		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14957	Seq. ID	OJ990817_04.9921.C10
Gene No.	31813	Strand	-
Start	842	End	1203
Name	OJ990817_04.9921.C10.o2.gs	Method	GENSCAN
Start	842	End	1203
GI	none	Score	.46
Exons	842..949, 1064..1203		

Seq. No.	14958	Seq. ID	OJ990817_04.9921.C11
Gene No.	31814	Strand	+
Start	865	End	1109
Name	OJ990817_04.9921.C11.o1.np	Method	AAT/NAP
Start	865	End	1109
GI	6069646	Score	300
Exons	865..1109		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	14958	Seq. ID	OJ990817_04.9921.C11
Gene No.	31815	Strand	-
Start	2828	End	3801
Name	OJ990817_04.9921.C11.o2.gs	Method	GENSCAN
Start	2828	End	3788
GI	none	Score	.74
Exons	2828..2897, 3573..3788		

Seq. No.	14958	Seq. ID	OJ990817_04.9921.C11
Gene No.	31815	Strand	-
Start	2828	End	3801
Name	OJ990817_04.9921.C11.o1.tm	Method	TBLASTX:Maize
Start	3588	End	3801
GI	none	Score	89
Exons	3588..3608, 3602..3790, 3612..3692, 3619..3801, 3623..3703		

Seq. No.	14958	Seq. ID	OJ990817_04.9921.C11
Gene No.	31815	Strand	-
Start	2828	End	3801
Name	OJ990817_04.9921.C11.o1.ts	Method	TBLASTX:Soybean
Start	3588	End	3801
GI	none	Score	89
Exons	3588..3608, 3602..3790, 3612..3692, 3619..3801, 3623..3703		

Seq. No.	14959	Seq. ID	OJ990817_04.9921.C12
Gene No.	31816	Strand	-
Start	164	End	1459
Name	OJ990817_04.9921.C12.o1.gs	Method	GENSCAN
Start	164	End	1406
GI	none	Score	.95
Exons	164..306, 427..1406		

Seq. No.	14959	Seq. ID	OJ990817_04.9921.C12
Gene No.	31816	Strand	-
Start	164	End	1459
Name	OJ990817_04.9921.C12.o1.tm	Method	TBLASTX:Maize
Start	165	End	1013
GI	none	Score	115
Exons	165..236, 468..926, 469..618, 471..1013, 478..1005, 950..1009		

Seq. No.	14959	Seq. ID	OJ990817_04.9921.C12
Gene No.	31816	Strand	-
Start	164	End	1459
Name	OJ990817_04.9921.C12.o1.gp	Method	AAT/GAP
Start	407	End	890
GI	none	Score	904
Exons	407..890		

Seq. No.	14959	Seq. ID	OJ990817_04.9921.C12
Gene No.	31816	Strand	-
Start	164	End	1459
Name	OJ990817_04.9921.C12.o2.tm	Method	TBLASTX:Maize
Start	1014	End	1459
GI	none	Score	81
Exons	1014..1106, 1015..1107, 1102..1218, 1113..1205, 1217..1291, 1217..1291, 1306..1458, 1310..1459, 1316..1459		

Seq. No.	14960	Seq. ID	OJ990817_04.9921.C13
Gene No.	31817	Strand	+
Start	1012	End	1398
Name	OJ990817_04.9921.C13.o1.gs	Method	GENSCAN
Start	1012	End	1398
GI	none	Score	.98
Exons	1012..1398		

Seq. No.	14961	Seq. ID	OJ990817_04.9921.C14
Gene No.	31818	Strand	+
Start	3118	End	9658
Name	OJ990817_04.9921.C14.o1.gs	Method	GENSCAN
Start	3118	End	9658
GI	none	Score	.55
Exons	3118..3215, 3472..3551, 5480..5546, 5976..6057, 6073..6262, 7446..7564, 7733..7791, 8093..8114, 8210..8407, 8497..8619, 9264..9301, 9538..9658		

Seq. No.	14961	Seq. ID	OJ990817_04.9921.C14
Gene No.	31818	Strand	+
Start	3118	End	9658
Name	OJ990817_04.9921.C14.o1.gp	Method	AAT/GAP
Start	5115	End	5549
GI	LIB3479-006-Q6-K1-B11	Score	621
Exons	5115..5549		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 1.0e-110 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	14961	Seq. ID	OJ990817_04.9921.C14
Gene No.	31819	Strand	-
Start	4892	End	5330
Name	OJ990817_04.9921.C14.o1.np	Method	AAT/NAP
Start	4892	End	5330
GI	6539570	Score	231
Exons	4892..4962, 5128..5330		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	14961	Seq. ID	OJ990817_04.9921.C14
Gene No.	31820	Strand	-
Start	5457	End	6156
Name	OJ990817_04.9921.C14.o1.tw	Method	TBLASTX:Wheat
Start	2204	End	2396
GI	none	Score	182
Exons	2204..2356, 2211..2396		

Seq. No.	14961	Seq. ID	OJ990817_04.9921.C14
Gene No.	31820	Strand	-
Start	5457	End	6156
Name	OJ990817_04.9921.C14.o1.tm	Method	TBLASTX:Maize
Start	2205	End	2648
GI	none	Score	180
Exons	2205..2417, 2211..2432, 2436..2648		

Seq. No.	14961	Seq. ID	OJ990817_04.9921.C14
Gene No.	31820	Strand	-
Start	5457	End	6156
Name	OJ990817_04.9921.C14.o2.np	Method	AAT/NAP
Start	5457	End	6156
GI	6630699	Score	95
Exons	5457..5544, 5917..6156		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	14962	Seq. ID	OJ990817_04.9921.C16

Gene No.	31821	Strand	-
Start	698	End	2326
Name	OJ990817_04.9921.C16.o1.gs	Method	GENSCAN
Start	698	End	2326
GI	none	Score	.44
Exons	698..859, 2223..2326		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31822	Strand	+
Start	231	End	1197
Name	OJ990817_04.9921.C17.o1.gs	Method	GENSCAN
Start	231	End	1197
GI	none	Score	.46
Exons	231..297, 1115..1197		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o1.tw	Method	TBLASTX:Wheat
Start	2096	End	2389
GI	none	Score	397
Exons	2096..2389, 2118..2387		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o1.tc	Method	TBLASTX:Cress
Start	2099	End	2275
GI	none	Score	200
Exons	2099..2275, 2121..2273		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o1.np	Method	AAT/NAP
Start	2100	End	4026
GI	3258575	Score	1239
Exons	2100..3092, 3221..3410, 3767..4026		
GI Descrip.	(U89959) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o2.gs	Method	GENSCAN
Start	2100	End	4041
GI	none	Score	.97
Exons	2100..3092, 3128..3410, 3767..4041		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o2.tm	Method	TBLASTX:Maize
Start	2105	End	2386
GI	none	Score	414
Exons	2105..2386, 2118..2384		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17

Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o2.ts	Method	TBLASTX:Soybean
Start	2123	End	2378
GI	none	Score	206
Exons	2123..2290, 2124..2294, 2292..2378, 2297..2374		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o1.gp	Method	AAT/GAP
Start	2255	End	2559
GI	uC-osrocyp008e08b1	Score	553
Exons	2255..2559		
GI Descrip.	'3258575 2.0e-28 (U89959) Hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o1.tm	Method	TBLASTX:Maize
Start	2400	End	2941
GI	none	Score	516
Exons	2400..2744, 2402..2683, 2592..2711, 2753..2785, 2757..2786, 2865..2939, 2882..2941, 2891..2941		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o2.gp	Method	AAT/GAP
Start	2676	End	3038
GI	none	Score	718
Exons	2676..3038		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o1.ts	Method	TBLASTX:Soybean
Start	2955	End	3337
GI	none	Score	181
Exons	2955..3101, 3218..3337, 3220..3327		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o3.tm	Method	TBLASTX:Maize
Start	2955	End	4023
GI	none	Score	179
Exons	2955..3101, 2966..3094, 3218..3337, 3220..3321, 3756..3926, 3769..3957, 3954..4007, 3961..4023		

Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o3.gp	Method	AAT/GAP
Start	3361	End	4570
GI	2595_2.R1084	Score	1615

Exons	3361..3410, 3767..4570		
GI Descrip.	'3258575 3.0e-27 (U89959) Hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o3.ts	Method	TBLASTX:Soybean
Start	3720	End	3969
GI	none	Score	193
Exons	3720..3965, 3769..3969		
Seq. No.	14963	Seq. ID	OJ990817_04.9921.C17
Gene No.	31823	Strand	+
Start	2100	End	4570
Name	OJ990817_04.9921.C17.o2.tw	Method	TBLASTX:Wheat
Start	3828	End	4031
GI	none	Score	306
Exons	3828..4031, 3829..4029		
Seq. No.	14964	Seq. ID	OJ990817_04.9921.C18
Gene No.	31824	Strand	-
Start	258	End	590
Name	OJ990817_04.9921.C18.o1.gs	Method	GENSCAN
Start	258	End	590
GI	none	Score	.67
Exons	258..378, 487..590		
Seq. No.	14965	Seq. ID	OJ990817_04.9921.C19
Gene No.	31825	Strand	
Start	77	End	448
Name	OJ990817_04.9921.C19.o1.tm	Method	TBLASTX:Maize
Start	77	End	448
GI	none	Score	118
Exons	77..448, 231..446		
Seq. No.	14966	Seq. ID	OJ990817_04.9921.C20
Gene No.	31826	Strand	-
Start	1	End	1452
Name	OJ990817_04.9921.C20.o1.np	Method	AAT/NAP
Start	1	End	1452
GI	4510427	Score	343
Exons	1..224, 318..382, 618..696, 995..1066, 1146..1313, 1419..1452		
GI Descrip.	(AC006929) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	14966	Seq. ID	OJ990817_04.9921.C20
Gene No.	31826	Strand	-
Start	1	End	1452
Name	OJ990817_04.9921.C20.o1.gs	Method	GENSCAN
Start	618	End	1313
GI	none	Score	.9
Exons	618..696, 995..1066, 1146..1313		
Seq. No.	14967	Seq. ID	OJ990817_04.9921.C21
Gene No.	31827	Strand	+
Start	45	End	615
Name	OJ990817_04.9921.C21.o1.gs	Method	GENSCAN

Start	45	End	615
GI	none	Score	.45
Exons	45..194, 586..615		

Seq. No.	14967	Seq. ID	OJ990817_04.9921.C21
Gene No.	31828	Strand	-
Start	2530	End	3294
Name	OJ990817_04.9921.C21.o2.gs	Method	GENSCAN
Start	2530	End	3079
GI	none	Score	.8
Exons	2530..2919, 2999..3079		

Seq. No.	14967	Seq. ID	OJ990817_04.9921.C21
Gene No.	31828	Strand	-
Start	2530	End	3294
Name	OJ990817_04.9921.C21.o1.np	Method	AAT/NAP
Start	2532	End	3294
GI	2191144	Score	265
Exons	2532..2937, 3223..3294		
GI Descrip.	(AF007269) A_IG002N01.24 gene product [Arabidopsis thaliana]		

Seq. No.	14967	Seq. ID	OJ990817_04.9921.C21
Gene No.	31828	Strand	-
Start	2530	End	3294
Name	OJ990817_04.9921.C21.o1.ts	Method	TBLASTX:Soybean
Start	2626	End	3082
GI	none	Score	38
Exons	2626..2724, 2704..2784, 2747..2785, 2789..2920, 2791..2922, 2794..2922, 2799..2924, 2999..3082		

Seq. No.	14967	Seq. ID	OJ990817_04.9921.C21
Gene No.	31828	Strand	-
Start	2530	End	3294
Name	OJ990817_04.9921.C21.o1.tm	Method	TBLASTX:Maize
Start	2668	End	2932
GI	none	Score	308
Exons	2668..2925, 2668..2931, 2747..2932		

Seq. No.	14968	Seq. ID	OJ990817_04.9921.C22
Gene No.	31829	Strand	+
Start	502	End	687
Name	OJ990817_04.9921.C22.o1.gs	Method	GENSCAN
Start	502	End	687
GI	none	Score	.57
Exons	502..687		

Seq. No.	14969	Seq. ID	OJ990817_04.9921.C23
Gene No.	31830	Strand	+
Start	3582	End	5801
Name	OJ990817_04.9921.C23.o2.np	Method	AAT/NAP
Start	3582	End	5801
GI	544262	Score	51
Exons	3582..3747, 3810..4012, 5720..5801		
GI Descrip.	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN PRECURSOR (PELP) gi|322761|pir||JQ1696 pistil extensin-like protein precursor (clone pMG15) - common tobacco gi|19929|emb|CAA78397| (Z14019) pistil extensin like protein [Nicotiana tabacum]		

Seq. No.	14969	Seq. ID	OJ990817_04.9921.C23
Gene No.	31831	Strand	-
Start	1	End	5764
Name	OJ990817_04.9921.C23.o1.np	Method	AAT/NAP
Start	1	End	1820
GI	2191144	Score	325
Exons	1..272, 385..900, 937..1186, 1501..1698, 1732..1820		
GI Descrip.	(AF007269) A_IG002N01.24 gene product [Arabidopsis thaliana]		

Seq. No.	14969	Seq. ID	OJ990817_04.9921.C23
Gene No.	31831	Strand	-
Start	1	End	5764
Name	OJ990817_04.9921.C23.o1.tm	Method	TBLASTX:Maize
Start	57	End	267
GI	none	Score	74
Exons	57..257, 63..185, 64..267		

Seq. No.	14969	Seq. ID	OJ990817_04.9921.C23
Gene No.	31831	Strand	-
Start	1	End	5764
Name	OJ990817_04.9921.C23.o1.ts	Method	TBLASTX:Soybean
Start	58	End	270
GI	none	Score	137
Exons	58..270, 63..269		

Seq. No.	14969	Seq. ID	OJ990817_04.9921.C23
Gene No.	31831	Strand	-
Start	1	End	5764
Name	OJ990817_04.9921.C23.o1.gs	Method	GENSCAN
Start	346	End	5764
GI	none	Score	.62
Exons	346..873, 1501..1815, 1903..2077, 2727..2777, 2865..2965, 3151..3237, 3557..3757, 3987..4304, 5566..5651, 5689..5764		

Seq. No.	14969	Seq. ID	OJ990817_04.9921.C23
Gene No.	31831	Strand	-
Start	1	End	5764
Name	OJ990817_04.9921.C23.o2.ts	Method	TBLASTX:Soybean
Start	1543	End	1973
GI	none	Score	50
Exons	1543..1809, 1599..1697, 1619..1831, 1624..1800, 1739..1813, 1900..1968, 1900..1968, 1914..1973		

Seq. No.	14969	Seq. ID	OJ990817_04.9921.C23
Gene No.	31831	Strand	-
Start	1	End	5764
Name	OJ990817_04.9921.C23.o1.tc	Method	TBLASTX:Cress
Start	1564	End	2085
GI	none	Score	87
Exons	1564..1809, 1900..1968, 2005..2085		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31832	Strand	+
Start	11	End	462
Name	OJ990817_04.9921.C24.o1.gs	Method	GENSCAN
Start	11	End	462

GI	none	Score	.85
Exons	11..43, 394..462		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31833	Strand	+
Start	1749	End	1994
Name	OJ990817_04.9921.C24.o2.np	Method	AAT/NAP
Start	1749	End	1994
GI	82538	Score	431
Exons	1749..1994		
GI Descrip.	hypothetical 9K protein (rps19-rpl2 intergenic region) - rice chloroplast gi|12028|emb|CAA33936| (X15901) ORF82 [Oryza sativa] gi|12074|emb|CAA33926| (X15901) ORF82 [Oryza sativa] gi|226650|prf||1603356CA ORF 82 [Oryza sativa]		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31834	Strand	+
Start	1994	End	2272
Name	OJ990817_04.9921.C24.o3.np	Method	AAT/NAP
Start	1994	End	2272
GI	1334371	Score	469
Exons	1994..2272		
GI Descrip.	(X13327) rps 19 [Secale cereale]		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31835	Strand	-
Start	1217	End	1627
Name	OJ990817_04.9921.C24.o1.np	Method	AAT/NAP
Start	1217	End	1627
GI	6176571	Score	699
Exons	1217..1627		
GI Descrip.	HYPOTHETICAL 14.9 KD PROTEIN YCF72 (ORF137) gi|82519|pir||JQ0269 hypothetical 15K protein (trnH-trnV intergenic region) - rice chloroplast gi|12029|emb|CAA33937| (X15901) ORF137 [Oryza sativa] gi|12073|emb|CAA33925| (X15901) ORF137 [Oryza sativa] gi|226651|prf||1603356CB ORF 137 [Oryza sativa]		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31836	Strand	-
Start	1894	End	3435
Name	OJ990817_04.9921.C24.o1.gp	Method	AAT/GAP
Start	1894	End	2826
GI	3073_1.R1084	Score	794
Exons	1894..2314, 2802..2826		
GI Descrip.	'133936/sp|P12146|RR3_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir__R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934_ (X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf__1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31836	Strand	-
Start	1894	End	3435
Name	OJ990817_04.9921.C24.o2.gp	Method	AAT/GAP
Start	2338	End	2682
GI	5455469	Score	585
Exons	2338..2682		

GI Descrip. 131251/sp|P12094|PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir__FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_ (X15901) PSII 32kDa protein [Oryza sativa] >gi_343212 (M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf__1503143A psbA gene [Oryza sativa] >gi_226406_prf__15

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31836	Strand	-
Start	1894	End	3435
Name	OJ990817_04.9921.C24.o4.np	Method	AAT/NAP
Start	2387	End	3435
GI	131251	Score	1718
Exons	2387..3435		

GI Descrip. PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) gi|72661|pir||FMRZ32 photosystem II protein D1 precursor - rice chloroplast gi|11958|emb|CAA34007| (X15901) PSII 32kDa protein [Oryza sativa] gi|343212 (M36191) Q-B protein (psbA) [Oryza sativa] gi|226249|prf||1503143A psbA gene [Oryza sativa] gi|226406|prf||1510376A quinone bind

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31836	Strand	-
Start	1894	End	3435
Name	OJ990817_04.9921.C24.o3.gp	Method	AAT/GAP
Start	3046	End	3423
GI	24570_1.R1084	Score	710
Exons	3046..3423		

GI Descrip. '131251/sp|P12094|PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir__FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_ (X15901) PSII 32kDa protein [Oryza sativa] >gi_343212 (M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf__1503143A psbA gene [Oryza sativa] >gi_226406_prf__15'

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o1.ts	Method	TBLASTX:Soybean
Start	721	End	2243
GI	none	Score	240
Exons	721..885, 728..907, 738..893, 885..962, 886..963, 964..1086, 967..1146, 969..1145, 1146..1190, 1147..1188, 1148..1189, 1183..1281, 1186..1296, 1187..1282, 1267..1359, 1268..1465, 1283..1492, 1403..1654, 1427..1582, 1434..1655, 1437..1670, 1438..1689, 1634..1726, 1650..1727, 1656..1727, 1975..1998, 2005..2229, 2006..2239, 2091..2243		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o5.tc	Method	TBLASTX:Cress
Start	721	End	962
GI	none	Score	59
Exons	721..768, 722..766, 754..885, 765..962, 767..961		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o1.tm	Method	TBLASTX:Maize
Start	867	End	1709
GI	none	Score	212
Exons	867..1238, 871..1362, 873..1013, 874..1707, 1053..1709, 1055..1654, 1284..1709		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o3.tc	Method	TBLASTX:Cress
Start	1217	End	2104
GI	none	Score	333
Exons	1217..1525, 1297..1359, 1298..1546, 1302..1541, 1556..1654, 1557..1655, 1560..1742, 1561..1695, 1634..1726, 1781..1813, 1785..1814, 1788..1865, 1798..1863, 1808..1864, 1815..1865, 1816..1866, 2006..2104, 2012..2101		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o1.tw	Method	TBLASTX:Wheat
Start	1249	End	1555
GI	none	Score	489
Exons	1249..1362, 1250..1555, 1250..1552		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o3.tm	Method	TBLASTX:Maize
Start	1877	End	2310
GI	none	Score	155
Exons	1877..1966, 1878..1979, 1918..2007, 1922..1981, 1968..2042, 1968..2276, 1973..2281, 1975..2310, 2009..2278		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o4.tc	Method	TBLASTX:Cress
Start	2366	End	2724
GI	none	Score	152
Exons	2366..2506, 2385..2507, 2440..2520, 2506..2724, 2510..2704		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o5.ts	Method	TBLASTX:Soybean
Start	2767	End	3123
GI	none	Score	69
Exons	2767..3123, 2779..2964		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629

Name	OJ990817_04.9921.C24.o1.tc	Method	TBLASTX:Cress
Start	2812	End	3416
GI	none	Score	221
Exons	2812..3039, 2815..3045, 3008..3040, 3022..3414, 3041..3415, 3041..3415, 3324..3416		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o2.tm	Method	TBLASTX:Maize
Start	3007	End	3416
GI	none	Score	661
Exons	3007..3414, 3008..3415, 3008..3415, 3009..3416		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o2.ts	Method	TBLASTX:Soybean
Start	3188	End	3415
GI	none	Score	350
Exons	3188..3415, 3190..3414		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o3.gs	Method	GENSCAN
Start	5682	End	6485
GI	none	Score	.99
Exons	5682..6485		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o5.np	Method	AAT/NAP
Start	5727	End	6629
GI	1657615	Score	674
Exons	5727..6326, 6456..6629		
GI Descrip.	(U72502) Glp [Arabidopsis thaliana] gi|3068706|gb|AAC14406.1| (AF049236) putative transmembrane protein Glp [Arabidopsis thaliana]		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o2.tc	Method	TBLASTX:Cress
Start	5802	End	6291
GI	none	Score	160
Exons	5802..6059, 5803..6060, 6054..6287, 6166..6291		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o4.ts	Method	TBLASTX:Soybean
Start	5802	End	6008
GI	none	Score	183
Exons	5802..6008, 5803..6006		

Seq. No.	14970	Seq. ID	OJ990817_04.9921.C24
Gene No.	31837	Strand	-
Start	5682	End	6629
Name	OJ990817_04.9921.C24.o3.ts	Method	TBLASTX:Soybean
Start	6009	End	6288
GI	none	Score	124
Exons	6009..6059, 6054..6287, 6166..6288		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31838	Strand	+
Start	1564	End	8046
Name	OJ990817_04.9921.C25.o1.gs	Method	GENSCAN
Start	1564	End	8046
GI	none	Score	.42
Exons	1564..1634, 1979..2081, 2674..2829, 3497..3534, 3633..4176, 4477..4566, 4964..4999, 6193..6303, 7279..8046		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31839	Strand	-
Start	702	End	2917
Name	OJ990817_04.9921.C25.o1.gp	Method	AAT/GAP
Start	702	End	2917
GI	none	Score	1337
Exons	702..1120, 2512..2650, 2765..2917		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31840	Strand	-
Start	9219	End	9620
Name	OJ990817_04.9921.C25.o2.ts	Method	TBLASTX:Soybean
Start	954	End	2664
GI	none	Score	175
Exons	954..1121, 962..1123, 2506..2658, 2509..2664		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31840	Strand	-
Start	9219	End	9620
Name	OJ990817_04.9921.C25.o3.tm	Method	TBLASTX:Maize
Start	954	End	2645
GI	none	Score	230
Exons	954..1121, 956..1123, 977..1129, 2512..2643, 2513..2632, 2521..2643, 2604..2645		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31840	Strand	-
Start	9219	End	9620
Name	OJ990817_04.9921.C25.o2.tc	Method	TBLASTX:Cress
Start	956	End	2658
GI	none	Score	156
Exons	956..1123, 963..1121, 2509..2658		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31840	Strand	-
Start	9219	End	9620
Name	OJ990817_04.9921.C25.o5.tm	Method	TBLASTX:Maize
Start	3355	End	3520
GI	none	Score	222
Exons	3355..3516, 3369..3518, 3377..3520, 3378..3515, 3386..3517		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31840	Strand	-
Start	9219	End	9620
Name	OJ990817_04.9921.C25.o6.tm	Method	TBLASTX:Maize
Start	6181	End	6725
GI	none	Score	56
Exons	6181..6228, 6181..6225, 6183..6230, 6224..6316, 6225..6311, 6228..6323, 6229..6330, 6399..6428, 6455..6535, 6456..6533, 6459..6542, 6461..6535, 6660..6725, 6663..6716		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31840	Strand	-
Start	9219	End	9620
Name	OJ990817_04.9921.C25.o1.tm	Method	TBLASTX:Maize
Start	7166	End	7728
GI	none	Score	39
Exons	7166..7189, 7265..7441, 7274..7453, 7275..7460, 7276..7455, 7518..7661, 7543..7659, 7644..7727, 7666..7728		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31840	Strand	-
Start	9219	End	9620
Name	OJ990817_04.9921.C25.o4.tm	Method	TBLASTX:Maize
Start	7837	End	8047
GI	none	Score	93
Exons	7837..7965, 7839..7970, 7843..7983, 7851..7979, 7978..8046, 7988..8047		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31840	Strand	-
Start	9219	End	9620
Name	OJ990817_04.9921.C25.o1.tc	Method	TBLASTX:Cress
Start	9219	End	9582
GI	none	Score	74
Exons	9219..9317, 9223..9318, 9361..9582, 9399..9581		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31840	Strand	-
Start	9219	End	9620
Name	OJ990817_04.9921.C25.o2.gs	Method	GENSCAN
Start	9219	End	9555
GI	none	Score	.97
Exons	9219..9555		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31840	Strand	-
Start	9219	End	9620
Name	OJ990817_04.9921.C25.o1.ts	Method	TBLASTX:Soybean
Start	9219	End	9585
GI	none	Score	66
Exons	9219..9317, 9223..9357, 9340..9585, 9399..9581		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31840	Strand	-
Start	9219	End	9620
Name	OJ990817_04.9921.C25.o2.tm	Method	TBLASTX:Maize

Start	9220	End	9585
GI	none	Score	63
Exons	9220..9306, 9222..9317, 9349..9585, 9402..9581		

Seq. No.	14971	Seq. ID	OJ990817_04.9921.C25
Gene No.	31840	Strand	-
Start	9219	End	9620
Name	OJ990817_04.9921.C25.o1.np	Method	AAT/NAP
Start	9222	End	9620
GI	1084391	Score	367
Exons	9222..9620		
GI Descrip.	endo-1,4-beta-D-glucanase, xyloglucan-specific (clone NXG2) - common nasturtium (fragment) gi|311837|emb|CAA48325| (X68255) cellulase [Tropaeolum majus]		

Seq. No.	14972	Seq. ID	OJ990817_04.9921.C26
Gene No.	31841	Strand	-
Start	1	End	711
Name	OJ990817_04.9921.C26.o1.np	Method	AAT/NAP
Start	1	End	637
GI	1362078	Score	360
Exons	1..122, 213..313, 424..637		
GI Descrip.	endo-1,4-beta-D-glucanase, xyloglucan-specific (clone NXG1) - common nasturtium gi|311835|emb|CAA48324| (X68254) cellulase [Tropaeolum majus]		

Seq. No.	14972	Seq. ID	OJ990817_04.9921.C26
Gene No.	31841	Strand	-
Start	1	End	711
Name	OJ990817_04.9921.C26.o1.gs	Method	GENSCAN
Start	27	End	661
GI	none	Score	.96
Exons	27..313, 424..661		

Seq. No.	14972	Seq. ID	OJ990817_04.9921.C26
Gene No.	31841	Strand	-
Start	1	End	711
Name	OJ990817_04.9921.C26.o1.gp	Method	AAT/GAP
Start	68	End	711
GI	69647_1.R1084	Score	747
Exons	68..122, 213..313, 424..711		
GI Descrip.	'4883603/gb|AAD31572.1|AC006922_4 1.0e-18 (AC006922) putative xyloglucan endo-transglycosylase [Arabidopsis thaliana]'		

Seq. No.	14972	Seq. ID	OJ990817_04.9921.C26
Gene No.	31842	Strand	-
Start	1544	End	4160
Name	OJ990817_04.9921.C26.o1.tc	Method	TBLASTX:Cress
Start	3	End	574
GI	none	Score	118
Exons	3..128, 192..314, 202..330, 410..574		

Seq. No.	14972	Seq. ID	OJ990817_04.9921.C26
Gene No.	31842	Strand	-
Start	1544	End	4160
Name	OJ990817_04.9921.C26.o1.tm	Method	TBLASTX:Maize
Start	3	End	563

GI	none	Score	92
Exons	3..68, 3..122, 202..315, 210..314, 406..549, 420..563, 422..562		

Seq. No.	14972	Seq. ID	OJ990817_04.9921.C26
Gene No.	31842	Strand	-
Start	1544	End	4160
Name	OJ990817_04.9921.C26.o1.ts	Method	TBLASTX:Soybean
Start	3	End	574
GI	none	Score	93
Exons	3..128, 201..314, 217..315, 401..463, 410..574, 462..563		

Seq. No.	14972	Seq. ID	OJ990817_04.9921.C26
Gene No.	31842	Strand	-
Start	1544	End	4160
Name	OJ990817_04.9921.C26.o2.gs	Method	GENSCAN
Start	1544	End	4160
GI	none	Score	.9
Exons	1544..1968, 2410..2574, 2942..3017, 4008..4160		

Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31843	Strand	+
Start	611	End	7636
Name	OJ990817_04.9921.C27.o1.gs	Method	GENSCAN
Start	611	End	7636
GI	none	Score	.47
Exons	611..706, 1407..1818, 2811..2934, 4275..4416, 5008..5380, 5385..5579, 7271..7636		

Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31843	Strand	+
Start	611	End	7636
Name	OJ990817_04.9921.C27.o1.gp	Method	AAT/GAP
Start	673	End	2359
GI	37716_1.R1084	Score	1885
Exons	673..706, 1407..2359		
GI Descrip.	'1055224 3.0e-12 (U20977) cellular nucleic acid binding protein [Xenopus laevis]'		

Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31843	Strand	+
Start	611	End	7636
Name	OJ990817_04.9921.C27.o1.np	Method	AAT/NAP
Start	1447	End	2878
GI	729704	Score	146
Exons	1447..1912, 2811..2878		
GI Descrip.	DNA-BINDING PROTEIN HEXBP (HEXAMER-BINDING PROTEIN) gi|1078700|pir||A47156 hexamer-binding protein HEXBP - Leishmania major gi|159342 (M94390) HEXBP DNA binding protein [Leishmania major]		

Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31844	Strand	-
Start	2014	End	5489
Name	OJ990817_04.9921.C27.o2.np	Method	AAT/NAP
Start	2014	End	5392
GI	4586116	Score	904
Exons	2014..2064, 3053..3099, 3179..3330, 4347..4693, 5063..5392		

GI Descrip.	(AL049638) putative C-4 sterol methyl oxidase [Arabidopsis thaliana]		
Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31844	Strand	-
Start	2014	End	5489
Name	OJ990817_04.9921.C27.o2.gp	Method	AAT/GAP
Start	2534	End	4561
GI	79169_1.R1084	Score	1270
Exons	2534..2888, 3056..3088, 3183..3330, 4347..4561		
GI Descrip.	'4680189/gb|AF111710.1|AF111710 3.0e-34 Oryza sativa subsp. indica putative dnaJ-like protein, putative myb-related protein, putative farnesyl pyrophosphate synthase, and hypothetical protein genes, complete cds'		
Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31844	Strand	-
Start	2014	End	5489
Name	OJ990817_04.9921.C27.o3.gp	Method	AAT/GAP
Start	5268	End	5489
GI	286268	Score	427
Exons	5268..5489		
Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31845	Strand	-
Start	8308	End	8448
Name	OJ990817_04.9921.C27.o1.ts	Method	TBLASTX:Soybean
Start	618	End	1941
GI	none	Score	154
Exons	618..707, 623..706, 624..707, 624..707, 624..707, 624..674, 626..706, 627..707, 1380..1529, 1381..1542, 1387..1539, 1407..1619, 1407..1733, 1408..1539, 1408..1764, 1408..1533, 1437..1541, 1438..1482, 1495..1539, 1495..1557, 1561..1617, 1573..1617, 1573..1734, 1573..1668, 1573..1731, 1575..1730, 1618..1731, 1633..1674, 1633..1680, 1666..1767, 1687..1734, 1687..1731, 1777..1842, 1777..1845, 1780..1845, 1789..1842, 1795..1860, 1798..1848, 1848..1934, 1849..1941, 1849..1905, 1861..1923, 1861..1905, 1861..1920		
Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31845	Strand	-
Start	8308	End	8448
Name	OJ990817_04.9921.C27.o1.tm	Method	TBLASTX:Maize
Start	624	End	1908
GI	none	Score	63
Exons	624..668, 624..707, 627..707, 633..707, 1378..1539, 1408..1482, 1408..1485, 1438..1554, 1446..1781, 1447..1782, 1760..1801, 1771..1800, 1789..1842, 1798..1848, 1849..1905, 1861..1908		
Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31845	Strand	-
Start	8308	End	8448
Name	OJ990817_04.9921.C27.o2.tm	Method	TBLASTX:Maize
Start	2799	End	5467
GI	none	Score	85
Exons	2799..2900, 2800..2886, 2804..2893, 3039..3089, 3053..3091, 3183..3329, 3184..3330, 4344..4577, 4345..4494, 4347..4580,		

4349..4600, 4622..4699, 4623..4691, 5063..5467, 5064..5324

Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31845	Strand	-
Start	8308	End	8448
Name	OJ990817_04.9921.C27.o1.tw	Method	TBLASTX:Wheat
Start	3053	End	4505
GI	none	Score	129
Exons	3053..3091, 3183..3329, 3184..3321, 4347..4505, 4349..4504		

Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31845	Strand	-
Start	8308	End	8448
Name	OJ990817_04.9921.C27.o2.ts	Method	TBLASTX:Soybean
Start	3216	End	5144
GI	none	Score	103
Exons	3216..3326, 3216..3329, 3217..3327, 4344..4580, 4344..4577, 4345..4581, 4349..4600, 4622..4702, 4623..4694, 5045..5077, 5060..5143, 5073..5144		

Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31845	Strand	-
Start	8308	End	8448
Name	OJ990817_04.9921.C27.o1.tc	Method	TBLASTX:Cress
Start	4367	End	5392
GI	none	Score	170
Exons	4367..4600, 4377..4580, 4622..4702, 4623..4694, 5060..5185, 5213..5392		

Seq. No.	14973	Seq. ID	OJ990817_04.9921.C27
Gene No.	31845	Strand	-
Start	8308	End	8448
Name	OJ990817_04.9921.C27.o2.gs	Method	GENSCAN
Start	8308	End	8448
GI	none	Score	.98
Exons	8308..8448		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31846	Strand	+
Start	2932	End	6073
Name	OJ990817_04.9921.C28.o1.np	Method	AAT/NAP
Start	2932	End	6070
GI	6503302	Score	496
Exons	2932..3057, 3558..3723, 3810..4029, 4056..4255, 5006..5290, 5789..6070		
GI Descrip.	(AC011713) Is a member of PF|01544 CorA-like Mg2+ transporter protein family. ESTs gb|Z48392 and gb|Z48391 come from this gene. [Arabidopsis thaliana]		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31846	Strand	+
Start	2932	End	6073
Name	OJ990817_04.9921.C28.o2.gs	Method	GENSCAN
Start	3591	End	6073
GI	none	Score	.73
Exons	3591..3723, 3810..4255, 5006..5290, 5789..6073		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31847	Strand	+
Start	7783	End	8332
Name	OJ990817_04.9921.C28.o3.gp	Method	AAT/GAP
Start	7783	End	8332
GI	34996_1.R1084	Score	597
Exons	7783..8101, 8308..8332		
GI Descrip.	'4467139/emb|CAB37508| 1.0e-65 (AL035540) putative protein phosphatase-2c [Arabidopsis thaliana]'		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31848	Strand	-
Start	561	End	3465
Name	OJ990817_04.9921.C28.o1.gs	Method	GENSCAN
Start	561	End	3465
GI	none	Score	.51
Exons	561..704, 1444..1541, 1665..1752, 1929..2012, 2549..2590, 2673..2755, 2805..3130, 3440..3465		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31848	Strand	-
Start	561	End	3465
Name	OJ990817_04.9921.C28.o1.gp	Method	AAT/GAP
Start	1889	End	2383
GI	none	Score	970
Exons	1889..2383		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31849	Strand	-
Start	6105	End	6264
Name	OJ990817_04.9921.C28.o2.gp	Method	AAT/GAP
Start	6105	End	6264
GI	2799390	Score	254
Exons	6105..6264		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31850	Strand	-
Start	7864	End	8332
Name	OJ990817_04.9921.C28.o4.tm	Method	TBLASTX:Maize
Start	1432	End	1768
GI	none	Score	124
Exons	1432..1545, 1444..1542, 1663..1761, 1664..1768, 1667..1768		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31850	Strand	-
Start	7864	End	8332
Name	OJ990817_04.9921.C28.o3.tm	Method	TBLASTX:Maize
Start	3555	End	4009
GI	none	Score	199
Exons	3555..3671, 3581..3730, 3582..3722, 3809..3913, 3809..3913, 3903..3965, 3908..4009, 3914..4009		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31850	Strand	-
Start	7864	End	8332
Name	OJ990817_04.9921.C28.o1.ts	Method	TBLASTX:Soybean
Start	3564	End	5100

GI	none	Score	158
Exons	3564..3653, 3581..3730, 3582..3722, 3799..3939, 3800..3949, 3980..4273, 4031..4249, 4237..4272, 5003..5098, 5003..5056, 5004..5099, 5047..5100		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31850	Strand	-
Start	7864	End	8332
Name	OJ990817_04.9921.C28.o1.tc	Method	TBLASTX:Cress
Start	3633	End	4228
GI	none	Score	109
Exons	3633..3722, 3695..3730, 3799..3948, 3800..3949, 4040..4228, 4052..4228		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31850	Strand	-
Start	7864	End	8332
Name	OJ990817_04.9921.C28.o5.tm	Method	TBLASTX:Maize
Start	4031	End	4187
GI	none	Score	216
Exons	4031..4186, 4031..4186, 4044..4187		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31850	Strand	-
Start	7864	End	8332
Name	OJ990817_04.9921.C28.o2.tm	Method	TBLASTX:Maize
Start	5003	End	6087
GI	none	Score	89
Exons	5003..5074, 5003..5059, 5004..5066, 5067..5291, 5067..5291, 5778..5966, 5780..5980, 5789..5977, 5881..5994, 5947..6087, 5966..6079		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31850	Strand	-
Start	7864	End	8332
Name	OJ990817_04.9921.C28.o2.tc	Method	TBLASTX:Cress
Start	5200	End	6076
GI	none	Score	72
Exons	5200..5283, 5202..5279, 5207..5287, 5210..5302, 5780..5962, 5780..5959, 5972..6061, 5978..6076		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31850	Strand	-
Start	7864	End	8332
Name	OJ990817_04.9921.C28.o1.tm	Method	TBLASTX:Maize
Start	7632	End	8101
GI	none	Score	72
Exons	7632..7685, 7633..7680, 7639..7692, 7682..7744, 7829..8089, 7830..8090, 7831..8100, 7838..8101		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31850	Strand	-
Start	7864	End	8332
Name	OJ990817_04.9921.C28.o2.ts	Method	TBLASTX:Soybean
Start	7852	End	8101
GI	none	Score	196
Exons	7852..8004, 7892..8101, 7933..8100		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31850	Strand	-
Start	7864	End	8332
Name	OJ990817_04.9921.C28.o2.np	Method	AAT/NAP
Start	7864	End	8332
GI	3608412	Score	238
Exons	7864..8108, 8275..8332		
GI Descrip.	(AF079355) protein phosphatase-2c [Mesembryanthemum crystallinum]		

Seq. No.	14974	Seq. ID	OJ990817_04.9921.C28
Gene No.	31850	Strand	-
Start	7864	End	8332
Name	OJ990817_04.9921.C28.o3.tc	Method	TBLASTX:Cress
Start	7885	End	8101
GI	none	Score	176
Exons	7885..7923, 7922..8098, 7939..8100, 7958..8101		

Seq. No.	14975	Seq. ID	OJ990817_04.9921.C29
Gene No.	31851	Strand	-
Start	1	End	2357
Name	OJ990817_04.9921.C29.o1.np	Method	AAT/NAP
Start	1	End	1930
GI	4206122	Score	788
Exons	1..19, 710..1076, 1606..1930		
GI Descrip.	(AF097667) protein phosphatase 2C homolog [Mesembryanthemum crystallinum]		

Seq. No.	14975	Seq. ID	OJ990817_04.9921.C29
Gene No.	31851	Strand	-
Start	1	End	2357
Name	OJ990817_04.9921.C29.o1.gs	Method	GENSCAN
Start	710	End	2047
GI	none	Score	.6
Exons	710..832, 874..1076, 1606..1854, 1987..2047		

Seq. No.	14975	Seq. ID	OJ990817_04.9921.C29
Gene No.	31851	Strand	-
Start	1	End	2357
Name	OJ990817_04.9921.C29.o1.gp	Method	AAT/GAP
Start	1711	End	2357
GI	26110_1.R1084	Score	916
Exons	1711..2019, 2162..2357		
GI Descrip.	'4206122 2.0e-13 (AF097667) protein phosphatase 2C homolog [Mesembryanthemum crystallinum]'		

Seq. No.	14975	Seq. ID	OJ990817_04.9921.C29
Gene No.	31852	Strand	-
Start	2717	End	4832
Name	OJ990817_04.9921.C29.o1.tm	Method	TBLASTX:Maize
Start	707	End	1948
GI	none	Score	241
Exons	707..898, 711..896, 893..1078, 894..1073, 895..1116, 896..1117, 1607..1879, 1608..1898, 1865..1948		

Seq. No.	14975	Seq. ID	OJ990817_04.9921.C29

Gene No.	31852	Strand	-
Start	2717	End	4832
Name	OJ990817_04.9921.C29.o2.tc	Method	TBLASTX:Cress
Start	707	End	916
GI	none	Score	95
Exons	707..892, 707..916, 708..902		

Seq. No.	14975	Seq. ID	OJ990817_04.9921.C29
Gene No.	31852	Strand	-
Start	2717	End	4832
Name	OJ990817_04.9921.C29.o1.ts	Method	TBLASTX:Soybean
Start	707	End	1991
GI	none	Score	115
Exons	707..898, 710..898, 714..902, 895..1116, 896..1075, 1595..1855, 1611..1856, 1865..1939, 1869..1940, 1953..1991		

Seq. No.	14975	Seq. ID	OJ990817_04.9921.C29
Gene No.	31852	Strand	-
Start	2717	End	4832
Name	OJ990817_04.9921.C29.o1.tw	Method	TBLASTX:Wheat
Start	953	End	1880
GI	none	Score	57
Exons	953..1003, 955..1005, 956..1021, 957..1010, 1001..1102, 1003..1107, 1005..1115, 1583..1801, 1583..1879, 1596..1880		

Seq. No.	14975	Seq. ID	OJ990817_04.9921.C29
Gene No.	31852	Strand	-
Start	2717	End	4832
Name	OJ990817_04.9921.C29.o1.tc	Method	TBLASTX:Cress
Start	1625	End	1853
GI	none	Score	109
Exons	1625..1807, 1625..1852, 1629..1853		

Seq. No.	14975	Seq. ID	OJ990817_04.9921.C29
Gene No.	31852	Strand	-
Start	2717	End	4832
Name	OJ990817_04.9921.C29.o2.gs	Method	GENSCAN
Start	2717	End	4832
GI	none	Score	.65
Exons	2717..2731, 3864..3972, 4726..4832		

Seq. No.	14976	Seq. ID	OJ990817_04.9921.C30
Gene No.	31853	Strand	+
Start	261	End	4311
Name	OJ990817_04.9921.C30.o3.np	Method	AAT/NAP
Start	261	End	4311
GI	4680183	Score	126
Exons	261..294, 4224..4311		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	14976	Seq. ID	OJ990817_04.9921.C30
Gene No.	31853	Strand	+
Start	261	End	4311
Name	OJ990817_04.9921.C30.o1.np	Method	AAT/NAP
Start	303	End	3156
GI	6967113	Score	56
Exons	303..325, 2405..2442, 2793..3156		

GI Descrip. (AL138652) putative protein [Arabidopsis thaliana]

Seq. No.	14976	Seq. ID	OJ990817_04.9921.C30
Gene No.	31854	Strand	-
Start	2128	End	4189
Name	OJ990817_04.9921.C30.o2.np	Method	AAT/NAP
Start	2128	End	4189
GI	6721561	Score	129
Exons	2128..2206, 4084..4189		

GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	14976	Seq. ID	OJ990817_04.9921.C30
Gene No.	31854	Strand	-
Start	2128	End	4189
Name	OJ990817_04.9921.C30.o1.tm	Method	TBLASTX:Maize
Start	2810	End	3188
GI	none	Score	72
Exons	2810..2875, 2880..2930, 2940..3188, 2993..3130		

Seq. No.	14976	Seq. ID	OJ990817_04.9921.C30
Gene No.	31854	Strand	-
Start	2128	End	4189
Name	OJ990817_04.9921.C30.o1.gp	Method	AAT/GAP
Start	3503	End	3592
GI	uC-osflcyp088b12b1	Score	135
Exons	3503..3592		

GI Descrip. '5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'

Seq. No.	14977	Seq. ID	OJ990817_04.9921.C31
Gene No.	31855	Strand	+
Start	55	End	447
Name	OJ990817_04.9921.C31.o1.gs	Method	GENSCAN
Start	55	End	447
GI	none	Score	.49
Exons	55..150, 316..447		

Seq. No.	14977	Seq. ID	OJ990817_04.9921.C31
Gene No.	31856	Strand	-
Start	737	End	1258
Name	OJ990817_04.9921.C31.o1.gp	Method	AAT/GAP
Start	737	End	1258
GI	LIB3434-038-P1-K1-F1	Score	724
Exons	737..1258		

GI Descrip. '5257255/dbj|AP000364.1|AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'

Seq. No.	14978	Seq. ID	OJ990817_04.9921.C33
Gene No.	31857	Strand	-
Start	87	End	1025
Name	OJ990817_04.9921.C33.o1.np	Method	AAT/NAP
Start	87	End	1025
GI	4510427	Score	171

Exons	87..245, 653..739, 994..1025		
GI Descrip.	(AC006929) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	14979	Seq. ID	OJ990817_04.9921.C34
Gene No.	31858	Strand	-
Start	1021	End	1349
Name	OJ990817_04.9921.C34.o1.gs	Method	GENSCAN
Start	1021	End	1349
GI	none	Score	.74
Exons	1021..1214, 1262..1349		
Seq. No.	14980	Seq. ID	OJ990817_04.9921.C35
Gene No.	31859	Strand	-
Start	1	End	158
Name	OJ990817_04.9921.C35.o1.gp	Method	AAT/GAP
Start	1	End	158
GI	37716_1.R1084	Score	290
Exons	1..158		
GI Descrip.	'1055224 3.0e-12 (U20977) cellular nucleic acid binding protein [Xenopus laevis]'		
Seq. No.	14980	Seq. ID	OJ990817_04.9921.C35
Gene No.	31860	Strand	-
Start	333	End	676
Name	OJ990817_04.9921.C35.o2.gp	Method	AAT/GAP
Start	333	End	676
GI	79169_1.R1084	Score	537
Exons	333..676		
GI Descrip.	'4680189/gb|AF111710.1|AF111710 3.0e-34 Oryza sativa subsp. indica putative dnaJ-like protein, putative myb-related protein, putative farnesyl pyrophosphate synthase, and hypothetical protein genes, complete cds'		
Seq. No.	14981	Seq. ID	OJ990817_04.9921.C37
Gene No.	31861	Strand	+
Start	120	End	372
Name	OJ990817_04.9921.C37.o1.gs	Method	GENSCAN
Start	120	End	372
GI	none	Score	.58
Exons	120..133, 195..372		
Seq. No.	14982	Seq. ID	OJ990817_04.9921.C38
Gene No.	31862	Strand	-
Start	296	End	4253
Name	OJ990817_04.9921.C38.o1.gs	Method	GENSCAN
Start	296	End	3216
GI	none	Score	.87
Exons	296..354, 1010..1172, 1331..1413, 1723..1830, 2590..2787, 2920..3216		
Seq. No.	14982	Seq. ID	OJ990817_04.9921.C38
Gene No.	31862	Strand	-
Start	296	End	4253
Name	OJ990817_04.9921.C38.o1.tm	Method	TBLASTX:Maize
Start	296	End	2011
GI	none	Score	66
Exons	296..355, 298..360, 1006..1164, 1010..1144, 1011..1190,		

1011..1202, 1328..1414, 1328..1414, 1330..1416, 1718..1831, 1720..1830, 1890..2003, 1898..2005, 1898..2011

Seq. No.	14982	Seq. ID	OJ990817_04.9921.C38
Gene No.	31862	Strand	-
Start	296	End	4253
Name	OJ990817_04.9921.C38.o1.np	Method	AAT/NAP
Start	328	End	4253
GI	6630733	Score	1416
Exons	328..354, 1010..1172, 1331..1413, 1723..1830, 1901..2041, 2152..2253, 2590..2812, 2908..3214, 4122..4253		
GI Descrip.	(AL132958) Cytochrom P450-like protein [Arabidopsis thaliana]		

Seq. No.	14982	Seq. ID	OJ990817_04.9921.C38
Gene No.	31862	Strand	-
Start	296	End	4253
Name	OJ990817_04.9921.C38.o1.ts	Method	TBLASTX:Soybean
Start	1010	End	3087
GI	none	Score	101
Exons	1010..1054, 1065..1178, 1104..1178, 1726..1785, 1780..1830, 1898..2050, 2152..2241, 2675..2794, 2912..3079, 2917..3087, 2923..3084		

Seq. No.	14982	Seq. ID	OJ990817_04.9921.C38
Gene No.	31862	Strand	-
Start	296	End	4253
Name	OJ990817_04.9921.C38.o1.tc	Method	TBLASTX:Cress
Start	1064	End	2259
GI	none	Score	97
Exons	1064..1144, 1065..1178, 1726..1785, 1898..2050, 2152..2259, 2158..2217		

Seq. No.	14982	Seq. ID	OJ990817_04.9921.C38
Gene No.	31862	Strand	-
Start	296	End	4253
Name	OJ990817_04.9921.C38.o2.tm	Method	TBLASTX:Maize
Start	2152	End	3156
GI	none	Score	65
Exons	2152..2241, 2166..2246, 2917..3087, 2921..3079, 3112..3156		

Seq. No.	14982	Seq. ID	OJ990817_04.9921.C38
Gene No.	31862	Strand	-
Start	296	End	4253
Name	OJ990817_04.9921.C38.o2.tc	Method	TBLASTX:Cress
Start	2587	End	2770
GI	none	Score	177
Exons	2587..2769, 2588..2770		

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39
Gene No.	31863	Strand	+
Start	2423	End	4961
Name	OJ990817_04.9921.C39.o2.gs	Method	GENSCAN
Start	2423	End	4961
GI	none	Score	.42
Exons	2423..2709, 3831..3937, 3970..4002, 4488..4594, 4920..4961		

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39

Gene No.	31864	Strand	+
Start	7100	End	7617
Name	OJ990817_04.9921.C39.o1.gp	Method	AAT/GAP
Start	6959	End	7617
GI	none	Score	1295
Exons	6959..7617		

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39
Gene No.	31864	Strand	+
Start	7100	End	7617
Name	OJ990817_04.9921.C39.o3.gs	Method	GENSCAN
Start	7100	End	7486
GI	none	Score	.5
Exons	7100..7486		

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39
Gene No.	31864	Strand	+
Start	7100	End	7617
Name	OJ990817_04.9921.C39.o2.np	Method	AAT/NAP
Start	7103	End	7448
GI	1841320	Score	83
Exons	7103..7197, 7230..7448		
GI Descrip.	(D64038) EL2 [Oryza sativa]		

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39
Gene No.	31865	Strand	-
Start	5	End	2299
Name	OJ990817_04.9921.C39.o1.gs	Method	GENSCAN
Start	5	End	445
GI	none	Score	.78
Exons	5..445		

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39
Gene No.	31865	Strand	-
Start	5	End	2299
Name	OJ990817_04.9921.C39.o1.np	Method	AAT/NAP
Start	229	End	2299
GI	5042463	Score	93
Exons	229..396, 1030..1230, 1288..1448, 2112..2299		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39
Gene No.	31866	Strand	-
Start	7992	End	10410
Name	OJ990817_04.9921.C39.o4.gs	Method	GENSCAN
Start	7992	End	10403
GI	none	Score	.63
Exons	7992..8552, 9326..9376, 9466..9630, 10331..10403		

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39
Gene No.	31866	Strand	-
Start	7992	End	10410
Name	OJ990817_04.9921.C39.o2.gp	Method	AAT/GAP
Start	8877	End	9429
GI	uC-osroM202033g02a1	Score	695
Exons	8877..9224, 9326..9429		
GI Descrip.	'4510425/gb|AAD21511.1| 8.0e-28 (AC006929) unknown protein		

[Arabidopsis thaliana]'

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39
Gene No.	31866	Strand	-
Start	7992	End	10410
Name	OJ990817_04.9921.C39.o3.gp	Method	AAT/GAP
Start	9053	End	9610
GI	uC-osroM202033g02a1	Score	502
Exons	9053..9224, 9326..9376, 9553..9610		
GI Descrip.	'4510425/gb|AAD21511.1| 8.0e-28 (AC006929) unknown protein [Arabidopsis thaliana]'		

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39
Gene No.	31866	Strand	-
Start	7992	End	10410
Name	OJ990817_04.9921.C39.o1.tm	Method	TBLASTX:Maize
Start	9075	End	9849
GI	none	Score	93
Exons	9075..9224, 9113..9226, 9115..9183, 9183..9224, 9323..9379, 9326..9382, 9545..9637, 9554..9646, 9711..9839, 9711..9839, 9712..9840, 9713..9847, 9724..9849		

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39
Gene No.	31866	Strand	-
Start	7992	End	10410
Name	OJ990817_04.9921.C39.o3.np	Method	AAT/NAP
Start	9114	End	10390
GI	4510425	Score	429
Exons	9114..9224, 9326..9376, 9553..9627, 9716..9838, 10331..10390		
GI Descrip.	(AC006929) unknown protein [Arabidopsis thaliana]		

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39
Gene No.	31866	Strand	-
Start	7992	End	10410
Name	OJ990817_04.9921.C39.o1.tc	Method	TBLASTX:Cress
Start	9123	End	10400
GI	none	Score	66
Exons	9123..9224, 9326..9382, 9329..9379, 9553..9609, 9557..9646, 9711..9839, 9713..9841, 10328..10399, 10329..10400		

Seq. No.	14983	Seq. ID	OJ990817_04.9921.C39
Gene No.	31866	Strand	-
Start	7992	End	10410
Name	OJ990817_04.9921.C39.o1.ts	Method	TBLASTX:Soybean
Start	9126	End	10410
GI	none	Score	68
Exons	9126..9224, 9127..9243, 9127..9225, 9324..9377, 9326..9382, 9553..9609, 9557..9646, 9711..9833, 9713..9841, 10328..10402, 10329..10400, 10330..10410		

Seq. No.	14984	Seq. ID	OJ990817_04.9921.C40
Gene No.	31867	Strand	-
Start	1	End	411
Name	OJ990817_04.9921.C40.o1.np	Method	AAT/NAP
Start	1	End	411
GI	4510426	Score	229
Exons	1..93, 121..411		

GI Descrip.	(AC006929) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	14984	Seq. ID	OJ990817_04.9921.C40
Gene No.	31867	Strand	-
Start	1	End	411
Name	OJ990817_04.9921.C40.o1.tw	Method	TBLASTX:Wheat
Start	1	End	265
GI	none	Score	315
Exons	1..264, 2..265		
Seq. No.	14984	Seq. ID	OJ990817_04.9921.C40
Gene No.	31867	Strand	-
Start	1	End	411
Name	OJ990817_04.9921.C40.o1.gs	Method	GENSCAN
Start	33	End	387
GI	none	Score	.5
Exons	33..387		
Seq. No.	14985	Seq. ID	OJ990627_49.9A14.C1
Gene No.	31868	Strand	+
Start	2965	End	5258
Name	OJ990627_49.9A14.C1.o1.gp	Method	AAT/GAP
Start	2965	End	4733
GI	5205_1.R1084	Score	1285
Exons	2965..3086, 3197..3536, 4017..4098, 4578..4733		
GI Descrip.	'5478530/gb|AAD43920.1|AF130441_1 1.0e-121 (AF130441) UVB-resistance protein UVR8 [Arabidopsis thaliana]'		
Seq. No.	14985	Seq. ID	OJ990627_49.9A14.C1
Gene No.	31868	Strand	+
Start	2965	End	5258
Name	OJ990627_49.9A14.C1.o1.gs	Method	GENSCAN
Start	2972	End	4733
GI	none	Score	.8
Exons	2972..3086, 3197..3536, 4017..4098, 4578..4733		
Seq. No.	14985	Seq. ID	OJ990627_49.9A14.C1
Gene No.	31868	Strand	+
Start	2965	End	5258
Name	OJ990627_49.9A14.C1.o1.np	Method	AAT/NAP
Start	2993	End	5258
GI	5478530	Score	790
Exons	2993..3086, 3197..3536, 4017..4098, 4578..4734, 5218..5258		
GI Descrip.	(AF130441) UVB-resistance protein UVR8 [Arabidopsis thaliana]		
Seq. No.	14985	Seq. ID	OJ990627_49.9A14.C1
Gene No.	31868	Strand	+
Start	2965	End	5258
Name	OJ990627_49.9A14.C1.o1.tm	Method	TBLASTX:Maize
Start	3023	End	4754
GI	none	Score	81
Exons	3023..3085, 3040..3084, 3197..3283, 3197..3217, 3202..3306, 3214..3264, 3270..3305, 3294..3431, 3300..3431, 3304..3432, 3379..3510, 3384..3500, 4015..4098, 4587..4754, 4593..4700		
Seq. No.	14985	Seq. ID	OJ990627_49.9A14.C1
Gene No.	31868	Strand	+

Start	2965	End	5258
Name	OJ990627_49.9A14.C1.o1.tc	Method	TBLASTX:Cress
Start	3029	End	4754
GI	none	Score	71
Exons	3029..3085, 3202..3297, 3214..3294, 3312..3440, 3313..3441, 3372..3494, 3373..3525, 4015..4098, 4587..4754, 4641..4724		

Seq. No.	14985	Seq. ID	OJ990627_49.9A14.C1
Gene No.	31868	Strand	+
Start	2965	End	5258
Name	OJ990627_49.9A14.C1.o1.ts	Method	TBLASTX:Soybean
Start	3029	End	4754
GI	none	Score	71
Exons	3029..3085, 3029..3085, 3202..3300, 3202..3276, 3214..3294, 3304..3534, 3312..3530, 3364..3531, 3372..3509, 3373..3510, 3381..3548, 4012..4086, 4014..4088, 4015..4104, 4015..4104, 4015..4098, 4578..4733, 4578..4652, 4587..4754, 4641..4733		

Seq. No.	14986	Seq. ID	OJ990627_49.9A14.C2
Gene No.	31869	Strand	+
Start	407	End	1662
Name	OJ990627_49.9A14.C2.o1.np	Method	AAT/NAP
Start	407	End	1314
GI	5478530	Score	316
Exons	407..533, 646..764, 865..950, 1040..1090, 1235..1314		
GI Descrip.	(AF130441) UVB-resistance protein UVR8 [Arabidopsis thaliana]		

Seq. No.	14986	Seq. ID	OJ990627_49.9A14.C2
Gene No.	31869	Strand	+
Start	407	End	1662
Name	OJ990627_49.9A14.C2.o1.gp	Method	AAT/GAP
Start	461	End	1662
GI	5205_1.R1084	Score	1361
Exons	461..533, 646..764, 865..950, 1040..1092, 1231..1662		
GI Descrip.	'5478530/gb|AAD43920.1|AF130441_1 1.0e-121 (AF130441) UVB-resistance protein UVR8 [Arabidopsis thaliana]'		

Seq. No.	14986	Seq. ID	OJ990627_49.9A14.C2
Gene No.	31870	Strand	-
Start	9363	End	14299
Name	OJ990627_49.9A14.C2.o1.tm	Method	TBLASTX:Maize
Start	459	End	1465
GI	none	Score	98
Exons	459..533, 461..532, 642..764, 643..765, 652..738, 664..762, 664..765, 667..765, 667..750, 676..762, 857..916, 858..929, 862..948, 863..949, 980..1084, 1032..1094, 1033..1095, 1039..1098, 1227..1319, 1231..1320, 1241..1324, 1400..1465, 1401..1439		

Seq. No.	14986	Seq. ID	OJ990627_49.9A14.C2
Gene No.	31870	Strand	-
Start	9363	End	14299
Name	OJ990627_49.9A14.C2.o2.ts	Method	TBLASTX:Soybean
Start	459	End	1098
GI	none	Score	103
Exons	459..533, 461..532, 642..749, 645..713, 664..762, 664..765, 667..768, 863..958, 1036..1098		

Seq. No.	14986	Seq. ID	OJ990627_49.9A14.C2
Gene No.	31870	Strand	-
Start	9363	End	14299
Name	OJ990627_49.9A14.C2.o3.gp	Method	AAT/GAP
Start	9143	End	11855
GI	16704_1.R1084	Score	1013
Exons	9143..9506, 11545..11688, 11798..11855		
GI Descrip.	'1903364/gb|AAB70447| 4.0e-25 (AC000104) EST gb_T45093 comes from this gene. [Arabidopsis thaliana]'		

Seq. No.	14986	Seq. ID	OJ990627_49.9A14.C2
Gene No.	31870	Strand	-
Start	9363	End	14299
Name	OJ990627_49.9A14.C2.o2.gs	Method	GENSCAN
Start	9363	End	14249
GI	none	Score	.71
Exons	9363..9506, 11545..11688, 11798..11973, 13550..13649, 13826..14035, 14137..14249		

Seq. No.	14986	Seq. ID	OJ990627_49.9A14.C2
Gene No.	31870	Strand	-
Start	9363	End	14299
Name	OJ990627_49.9A14.C2.o2.np	Method	AAT/NAP
Start	9366	End	11971
GI	1903364	Score	260
Exons	9366..9506, 11545..11688, 11798..11971		
GI Descrip.	(AC000104) EST gb|T45093 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	14986	Seq. ID	OJ990627_49.9A14.C2
Gene No.	31870	Strand	-
Start	9363	End	14299
Name	OJ990627_49.9A14.C2.o2.tm	Method	TBLASTX:Maize
Start	9372	End	11977
GI	none	Score	197
Exons	9372..9506, 9373..9507, 9389..9511, 11543..11707, 11545..11688, 11789..11887, 11799..11891, 11885..11977, 11942..11971		

Seq. No.	14986	Seq. ID	OJ990627_49.9A14.C2
Gene No.	31870	Strand	-
Start	9363	End	14299
Name	OJ990627_49.9A14.C2.o3.np	Method	AAT/NAP
Start	13790	End	14299
GI	1709619	Score	271
Exons	13790..14035, 14137..14299		
GI Descrip.	PROTEIN DISULFIDE ISOMERASE PRECURSOR (PDI) gi|2146814|pir||S69181 protein disulfide isomerase (EC 5.3.4.1) precursor - maize gi|625148 (L39014) protein disulfide isomerase [Zea mays]		

Seq. No.	14986	Seq. ID	OJ990627_49.9A14.C2
Gene No.	31870	Strand	-
Start	9363	End	14299
Name	OJ990627_49.9A14.C2.o1.ts	Method	TBLASTX:Soybean
Start	13856	End	14251
GI	none	Score	66

Exons	13856..14005, 13896..14006, 14016..14048, 14137..14250, 14141..14251, 14146..14250		
Seq. No.	14986	Seq. ID	OJ990627_49.9A14.C2
Gene No.	31870	Strand	-
Start	9363	End	14299
Name	OJ990627_49.9A14.C2.o3.tm	Method	TBLASTX:Maize
Start	13856	End	14251
GI	none	Score	71
Exons	13856..14035, 13893..14036, 14132..14251, 14134..14250, 14137..14250		
Seq. No.	14987	Seq. ID	OJ990627_49.9A14.C5
Gene No.	31871	Strand	+
Start	293	End	1201
Name	OJ990627_49.9A14.C5.o1.np	Method	AAT/NAP
Start	293	End	1201
GI	5922623	Score	224
Exons	293..373, 753..909, 1077..1201		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	14987	Seq. ID	OJ990627_49.9A14.C5
Gene No.	31872	Strand	-
Start	326	End	822
Name	OJ990627_49.9A14.C5.o1.gs	Method	GENSCAN
Start	326	End	822
GI	none	Score	.94
Exons	326..497, 710..822		
Seq. No.	14988	Seq. ID	OJ990627_49.9A14.C6
Gene No.	31873	Strand	+
Start	358	End	2905
Name	OJ990627_49.9A14.C6.o1.gs	Method	GENSCAN
Start	358	End	2905
GI	none	Score	.76
Exons	358..504, 1996..2282, 2384..2905		
Seq. No.	14988	Seq. ID	OJ990627_49.9A14.C6
Gene No.	31873	Strand	+
Start	358	End	2905
Name	OJ990627_49.9A14.C6.o1.np	Method	AAT/NAP
Start	2031	End	2803
GI	6692255	Score	326
Exons	2031..2255, 2312..2803		
GI Descrip.	(AC021046) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	14988	Seq. ID	OJ990627_49.9A14.C6
Gene No.	31874	Strand	-
Start	6368	End	8902
Name	OJ990627_49.9A14.C6.o1.tm	Method	TBLASTX:Maize
Start	2120	End	2267
GI	none	Score	115
Exons	2120..2194, 2121..2198, 2147..2266, 2193..2267		
Seq. No.	14988	Seq. ID	OJ990627_49.9A14.C6

Gene No.	31874	Strand	-
Start	6368	End	8902
Name	OJ990627_49.9A14.C6.o1.tc	Method	TBLASTX:Cress
Start	2121	End	2272
GI	none	Score	126
Exons	2121..2201, 2123..2194, 2147..2272, 2196..2255		

Seq. No.	14988	Seq. ID	OJ990627_49.9A14.C6
Gene No.	31874	Strand	-
Start	6368	End	8902
Name	OJ990627_49.9A14.C6.o1.ts	Method	TBLASTX:Soybean
Start	2542	End	2719
GI	none	Score	70
Exons	2542..2613, 2542..2709, 2555..2719		

Seq. No.	14988	Seq. ID	OJ990627_49.9A14.C6
Gene No.	31874	Strand	-
Start	6368	End	8902
Name	OJ990627_49.9A14.C6.o2.gs	Method	GENSCAN
Start	6368	End	8902
GI	none	Score	.99
Exons	6368..6718, 6798..8430, 8532..8902		

Seq. No.	14988	Seq. ID	OJ990627_49.9A14.C6
Gene No.	31874	Strand	-
Start	6368	End	8902
Name	OJ990627_49.9A14.C6.o2.np	Method	AAT/NAP
Start	6371	End	8018
GI	4836403	Score	462
Exons	6371..6539, 6635..6718, 6798..7135, 7211..7535, 7878..7922, 7968..8018		
GI Descrip.	(AF117723) seed maturation protein PM27 [Glycine max]		

Seq. No.	14988	Seq. ID	OJ990627_49.9A14.C6
Gene No.	31874	Strand	-
Start	6368	End	8902
Name	OJ990627_49.9A14.C6.o2.ts	Method	TBLASTX:Soybean
Start	6921	End	8021
GI	none	Score	133
Exons	6921..7091, 6943..7134, 6951..7136, 7962..8021		

Seq. No.	14989	Seq. ID	OJ990627_49.9A14.C9
Gene No.	31875	Strand	+
Start	146	End	1436
Name	OJ990627_49.9A14.C9.o1.gs	Method	GENSCAN
Start	146	End	1436
GI	none	Score	.67
Exons	146..278, 1330..1436		

Seq. No.	14989	Seq. ID	OJ990627_49.9A14.C9
Gene No.	31876	Strand	-
Start	1982	End	2162
Name	OJ990627_49.9A14.C9.o2.gs	Method	GENSCAN
Start	1982	End	2162
GI	none	Score	.95
Exons	1982..1990, 2033..2162		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31877	Strand	+
Start	13993	End	24078
Name	OJ990627_49.9A14.C10.o2.np	Method	AAT/NAP
Start	13993	End	21696
GI	3202026	Score	992
Exons	13993..14234, 17125..17224, 18322..18442, 18528..18628, 18747..18834, 19154..19221, 19318..19404, 19901..19975, 20064..20141, 20269..20373, 21637..21696		
GI Descrip.	(AF069316) stromal L-ascorbate peroxidase precursor [Mesembryanthemum crystallinum]		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31877	Strand	+
Start	13993	End	24078
Name	OJ990627_49.9A14.C10.o3.gp	Method	AAT/GAP
Start	16652	End	20972
GI	15686_1.R1084	Score	2632
Exons	16652..16961, 17066..17224, 18322..18442, 18528..18628, 18747..18834, 19154..19221, 19318..19404, 19901..19975, 20064..20141, 20269..20373, 20574..20646, 20790..20972		
GI Descrip.	'3202026 1.0e-135 (AF069316) stromal L-ascorbate peroxidase precursor [Mesembryanthemum crystallinum]'		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31877	Strand	+
Start	13993	End	24078
Name	OJ990627_49.9A14.C10.o4.gs	Method	GENSCAN
Start	19303	End	20594
GI	none	Score	.58
Exons	19303..19355, 19901..20141, 20269..20373, 20574..20594		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31877	Strand	+
Start	13993	End	24078
Name	OJ990627_49.9A14.C10.o3.np	Method	AAT/NAP
Start	20756	End	24078
GI	6721512	Score	115
Exons	20756..20826, 22349..22452, 22481..22649, 23994..24078		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31878	Strand	-
Start	590	End	8537
Name	OJ990627_49.9A14.C10.o1.gs	Method	GENSCAN
Start	590	End	8537
GI	none	Score	.71
Exons	590..745, 1604..2308, 3159..3464, 3663..3854, 4179..4298, 5406..5588, 5909..6061, 8457..8537		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31878	Strand	-
Start	590	End	8537
Name	OJ990627_49.9A14.C10.o1.np	Method	AAT/NAP
Start	1652	End	6007
GI	2444271	Score	944
Exons	1652..2308, 3159..3464, 3663..3854, 4179..4298, 5406..5588,		

	5909..6007		
GI Descrip.	(AF019637) putative amino acid or GABA permease [Arabidopsis thaliana]		
Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31878	Strand	-
Start	590	End	8537
Name	OJ990627_49.9A14.C10.o1.gp	Method	AAT/GAP
Start	4249	End	6161
GI	uC-osroM202001h07b1	Score	911
Exons	4249..4298, 5406..5588, 5909..6161		
GI Descrip.	'2444271 7.0e-27 (AF019637) putative amino acid or GABA permease [Arabidopsis thaliana]'		
Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31879	Strand	-
Start	11265	End	14402
Name	OJ990627_49.9A14.C10.o2.gs	Method	GENSCAN
Start	11265	End	14402
GI	none	Score	.77
Exons	11265..11386, 11560..11587, 11807..11834, 12110..12221, 12390..12425, 13312..13402, 13733..13888, 14043..14402		
Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o1.ts	Method	TBLASTX:Soybean
Start	1655	End	2047
GI	none	Score	359
Exons	1655..2047, 1656..2006		
Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o2.tm	Method	TBLASTX:Maize
Start	1655	End	2218
GI	none	Score	154
Exons	1655..2044, 1656..2000, 2078..2218		
Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o2.tc	Method	TBLASTX:Cress
Start	1658	End	6014
GI	none	Score	96
Exons	1658..2044, 1659..1886, 2078..2272, 3162..3359, 3184..3360, 4203..4298, 5388..5588, 5407..5499, 5530..5577, 5891..5971, 5922..6014		
Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o4.ts	Method	TBLASTX:Soybean
Start	2099	End	3333
GI	none	Score	221
Exons	2099..2344, 2100..2309, 3159..3332, 3163..3333		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o3.tm	Method	TBLASTX:Maize
Start	3630	End	5598
GI	none	Score	227
Exons	3630..3857, 3658..3858, 3658..3855, 3660..3857, 3839..3871, 4174..4299, 4179..4298, 5388..5588, 5392..5589, 5491..5598, 5493..5594		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o6.ts	Method	TBLASTX:Soybean
Start	4179	End	5972
GI	none	Score	52
Exons	4179..4220, 4183..4224, 4220..4258, 4221..4238, 4240..4299, 4242..4298, 5388..5486, 5392..5487, 5455..5589, 5469..5588, 5877..5972, 5900..5971		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o4.tm	Method	TBLASTX:Maize
Start	13138	End	13409
GI	none	Score	63
Exons	13138..13227, 13150..13227, 13220..13408, 13224..13409		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o5.ts	Method	TBLASTX:Soybean
Start	13157	End	13408
GI	none	Score	202
Exons	13157..13408, 13161..13403		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o1.tm	Method	TBLASTX:Maize
Start	17165	End	20375
GI	none	Score	84
Exons	17165..17224, 17174..17227, 18315..18443, 18315..18443, 18322..18450, 18520..18630, 18527..18628, 18530..18634, 18535..18630, 18744..18830, 18745..18831, 18746..18832, 18747..18833, 19153..19221, 19153..19221, 19154..19222, 19155..19223, 19249..19416, 19315..19404, 19337..19426, 19901..19975, 19903..19977, 19903..19977, 20058..20147, 20061..20144, 20257..20373, 20260..20373, 20268..20375		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o1.tc	Method	TBLASTX:Cress
Start	17174	End	20384
GI	none	Score	66
Exons	17174..17227, 18315..18443, 18322..18444, 18335..18451,		

18335..18460, 18523..18630, 18527..18628, 18538..18630,
18746..18832, 18747..18833, 19152..19223, 19153..19221,
19305..19403, 19315..19404, 19900..19977, 19901..19975,
20061..20141, 20090..20140, 20257..20373, 20257..20373,
20271..20384

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o1.tw	Method	TBLASTX:Wheat
Start	17174	End	18591
GI	none	Score	86
Exons	17174..17227, 18315..18443, 18321..18443, 18322..18444, 18322..18444, 18326..18451, 18520..18576, 18527..18589, 18536..18583, 18538..18591		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o2.ts	Method	TBLASTX:Soybean
Start	17174	End	19337
GI	none	Score	69
Exons	17174..17227, 18322..18444, 18323..18442, 18324..18443, 18520..18630, 18527..18628, 18548..18634, 18746..18832, 18747..18833, 19153..19221, 19317..19337		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o2.tw	Method	TBLASTX:Wheat
Start	18591	End	19404
GI	none	Score	67
Exons	18591..18629, 18592..18630, 18592..18630, 18593..18634, 18744..18830, 18746..18832, 18746..18832, 18747..18833, 19152..19223, 19153..19221, 19250..19402, 19315..19404, 19317..19403		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o3.ts	Method	TBLASTX:Soybean
Start	19338	End	20373
GI	none	Score	121
Exons	19338..19403, 19339..19404, 19900..20040, 19901..19975, 20061..20144, 20090..20146, 20257..20373, 20266..20367		

Seq. No.	14990	Seq. ID	OJ990627_49.9A14.C10
Gene No.	31880	Strand	-
Start	21000	End	23821
Name	OJ990627_49.9A14.C10.o5.gs	Method	GENSCAN
Start	21000	End	23821
GI	none	Score	.49
Exons	21000..21086, 21102..21282, 22220..22399, 22581..22835, 23207..23354, 23440..23821		

Seq. No.	14991	Seq. ID	OJ990627_49.9A14.C11
Gene No.	31881	Strand	+

Start	1	End	1158
Name	OJ990627_49.9A14.C11.o1.np	Method	AAT/NAP
Start	1	End	1158
GI	5263326	Score	272
Exons	1..191, 710..762, 956..1040, 1087..1158		
GI Descrip.	(AC007727) Similar to gb|U06698 neuronal kinesin heavy chain from Homo sapiens and contains a PF|00225 Kinesin motor domain. EST gb|AA042507 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	14991	Seq. ID	OJ990627_49.9A14.C11
Gene No.	31881	Strand	+
Start	1	End	1158
Name	OJ990627_49.9A14.C11.o1.gs	Method	GENSCAN
Start	102	End	1151
GI	none	Score	.65
Exons	102..191, 710..762, 1098..1151		

Seq. No.	14992	Seq. ID	OJ990627_49.9A14.C12
Gene No.	31882	Strand	+
Start	1	End	290
Name	OJ990627_49.9A14.C12.o1.gp	Method	AAT/GAP
Start	1	End	290
GI	5205_1.R1084	Score	302
Exons	1..30, 88..290		
GI Descrip.	'5478530/gb|AAD43920.1|AF130441_1 1.0e-121 (AF130441) UVB-resistance protein UVR8 [Arabidopsis thaliana]'		

Seq. No.	14992	Seq. ID	OJ990627_49.9A14.C12
Gene No.	31883	Strand	-
Start	1	End	290
Name	OJ990627_49.9A14.C12.o1.np	Method	AAT/NAP
Start	1	End	290
GI	5478530	Score	218
Exons	1..290		
GI Descrip.	(AF130441) UVB-resistance protein UVR8 [Arabidopsis thaliana]		

Seq. No.	14992	Seq. ID	OJ990627_49.9A14.C12
Gene No.	31883	Strand	-
Start	1	End	290
Name	OJ990627_49.9A14.C12.o1.ts	Method	TBLASTX:Soybean
Start	84	End	272
GI	none	Score	92
Exons	84..260, 87..260, 87..245, 97..261, 114..272		

Seq. No.	14992	Seq. ID	OJ990627_49.9A14.C12
Gene No.	31883	Strand	-
Start	1	End	290
Name	OJ990627_49.9A14.C12.o1.tc	Method	TBLASTX:Cress
Start	87	End	272
GI	none	Score	96
Exons	87..263, 87..263, 87..245, 123..272		

Seq. No.	14992	Seq. ID	OJ990627_49.9A14.C12
Gene No.	31883	Strand	-
Start	1	End	290
Name	OJ990627_49.9A14.C12.o1.tm	Method	TBLASTX:Maize
Start	87	End	272

GI	none	Score	64
Exons	87..263, 87..245, 94..135, 95..265, 102..272, 108..248, 111..260, 151..264		

Seq. No.	14992	Seq. ID	OJ990627_49.9A14.C12
Gene No.	31883	Strand	-
Start	1	End	290
Name	OJ990627_49.9A14.C12.o1.gs	Method	GENSCAN
Start	90	End	254
GI	none	Score	.52
Exons	90..254		

Seq. No.	14993	Seq. ID	OJ990627_49.9A14.C13
Gene No.	31884	Strand	+
Start	1	End	476
Name	OJ990627_49.9A14.C13.o1.np	Method	AAT/NAP
Start	1	End	476
GI	4704766	Score	123
Exons	1..66, 327..476		
GI Descrip.	(AF131223) protein disulfide isomerase homolog; PDI [Datisca glomerata]		

Seq. No.	14994	Seq. ID	OJ990627_49.9A14.C15
Gene No.	31885	Strand	-
Start	1	End	160
Name	OJ990627_49.9A14.C15.o1.np	Method	AAT/NAP
Start	1	End	160
GI	5263326	Score	79
Exons	1..160		
GI Descrip.	(AC007727) Similar to gb|U06698 neuronal kinesin heavy chain from Homo sapiens and contains a PF|00225 Kinesin motor domain. EST gb|AA042507 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	14995	Seq. ID	OJ990627_48.9A14.C1
Gene No.	31886	Strand	+
Start	1	End	1524
Name	OJ990627_48.9A14.C1.o1.np	Method	AAT/NAP
Start	1	End	1524
GI	5295955	Score	132
Exons	1..68, 909..1006, 1046..1524		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	14995	Seq. ID	OJ990627_48.9A14.C1
Gene No.	31886	Strand	+
Start	1	End	1524
Name	OJ990627_48.9A14.C1.o1.gs	Method	GENSCAN
Start	959	End	1405
GI	none	Score	1
Exons	959..1405		

Seq. No.	14996	Seq. ID	OJ990627_48.9A14.C2
Gene No.	31887	Strand	+
Start	147	End	416
Name	OJ990627_48.9A14.C2.o1.gs	Method	GENSCAN
Start	147	End	416
GI	none	Score	.75

Exons	147..416		
Seq. No.	14996	Seq. ID	OJ990627_48.9A14.C2
Gene No.	31888	Strand	-
Start	726	End	1481
Name	OJ990627_48.9A14.C2.o2.gs	Method	GENSCAN
Start	726	End	1363
GI	none	Score	.52
Exons	726..1363		
Seq. No.	14996	Seq. ID	OJ990627_48.9A14.C2
Gene No.	31888	Strand	-
Start	726	End	1481
Name	OJ990627_48.9A14.C2.o1.np	Method	AAT/NAP
Start	729	End	1481
GI	4680179	Score	1107
Exons	729..1481		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	14996	Seq. ID	OJ990627_48.9A14.C2
Gene No.	31888	Strand	-
Start	726	End	1481
Name	OJ990627_48.9A14.C2.o1.tw	Method	TBLASTX:Wheat
Start	739	End	1196
GI	none	Score	35
Exons	739..792, 774..1196, 795..956, 898..1014, 999..1079, 1054..1176		
Seq. No.	14996	Seq. ID	OJ990627_48.9A14.C2
Gene No.	31888	Strand	-
Start	726	End	1481
Name	OJ990627_48.9A14.C2.o2.tm	Method	TBLASTX:Maize
Start	753	End	950
GI	none	Score	197
Exons	753..950		
Seq. No.	14996	Seq. ID	OJ990627_48.9A14.C2
Gene No.	31888	Strand	-
Start	726	End	1481
Name	OJ990627_48.9A14.C2.o1.tm	Method	TBLASTX:Maize
Start	954	End	1376
GI	none	Score	243
Exons	954..1376, 967..1374		
Seq. No.	14996	Seq. ID	OJ990627_48.9A14.C2
Gene No.	31888	Strand	-
Start	726	End	1481
Name	OJ990627_48.9A14.C2.o2.tw	Method	TBLASTX:Wheat
Start	1200	End	1406
GI	none	Score	106
Exons	1200..1406, 1204..1374		
Seq. No.	14997	Seq. ID	OJ990627_48.9A14.C3
Gene No.	31889	Strand	-
Start	10	End	58
Name	OJ990627_48.9A14.C3.o1.gs	Method	GENSCAN
Start	10	End	58
GI	none	Score	.95

Exons	10..58		
Seq. No.	14998	Seq. ID	OJ990627_48.9A14.C4
Gene No.	31890	Strand	-
Start	1	End	1035
Name	OJ990627_48.9A14.C4.o1.np	Method	AAT/NAP
Start	1	End	259
GI	4895169	Score	165
Exons	1..259		
GI Descrip.	(AC007662) putative helicase [Arabidopsis thaliana]		
Seq. No.	14998	Seq. ID	OJ990627_48.9A14.C4
Gene No.	31890	Strand	-
Start	1	End	1035
Name	OJ990627_48.9A14.C4.o1.gs	Method	GENSCAN
Start	83	End	1035
GI	none	Score	.49
Exons	83..401, 491..574, 631..774, 989..1035		
Seq. No.	14999	Seq. ID	OJ990627_48.9A14.C5
Gene No.	31891	Strand	+
Start	146	End	706
Name	OJ990627_48.9A14.C5.o1.gp	Method	AAT/GAP
Start	146	End	679
GI	3107086	Score	812
Exons	146..208, 287..679		
Seq. No.	14999	Seq. ID	OJ990627_48.9A14.C5
Gene No.	31891	Strand	+
Start	146	End	706
Name	OJ990627_48.9A14.C5.o2.gp	Method	AAT/GAP
Start	173	End	706
GI	3107086	Score	781
Exons	173..208, 287..706		
Seq. No.	14999	Seq. ID	OJ990627_48.9A14.C5
Gene No.	31892	Strand	+
Start	681	End	896
Name	OJ990627_48.9A14.C5.o1.gs	Method	GENSCAN
Start	681	End	896
GI	none	Score	.78
Exons	681..744, 883..896		
Seq. No.	15000	Seq. ID	OJ990627_48.9A14.C6
Gene No.	31893	Strand	-
Start	206	End	871
Name	OJ990627_48.9A14.C6.o1.gs	Method	GENSCAN
Start	206	End	871
GI	none	Score	.9
Exons	206..370, 587..769, 845..871		
Seq. No.	15001	Seq. ID	OJ990627_48.9A14.C7
Gene No.	31894	Strand	-
Start	1	End	625
Name	OJ990627_48.9A14.C7.o1.np	Method	AAT/NAP
Start	1	End	625
GI	2498930	Score	714

Exons	1..394, 562..625		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi|1203794 (U18774) Sog [Drosophila melanogaster]		
Seq. No.	15001	Seq. ID	OJ990627_48.9A14.C7
Gene No.	31894	Strand	-
Start	1	End	625
Name	OJ990627_48.9A14.C7.o1.gs	Method	GENSCAN
Start	93	End	621
GI	none	Score	.71
Exons	93..394, 562..621		
Seq. No.	15002	Seq. ID	OJ990627_48.9A14.C8
Gene No.	31895	Strand	+
Start	325	End	468
Name	OJ990627_48.9A14.C8.o1.gs	Method	GENSCAN
Start	325	End	468
GI	none	Score	.68
Exons	325..468		
Seq. No.	15003	Seq. ID	OJ990627_48.9A14.C9
Gene No.	31896	Strand	+
Start	2795	End	4247
Name	OJ990627_48.9A14.C9.o2.np	Method	AAT/NAP
Start	2795	End	4166
GI	4455227	Score	572
Exons	2795..2885, 2993..3147, 3294..3401, 3707..3796, 4068..4166		
GI Descrip.	(AL035440) SNF8 like protein [Arabidopsis thaliana]		
Seq. No.	15003	Seq. ID	OJ990627_48.9A14.C9
Gene No.	31896	Strand	+
Start	2795	End	4247
Name	OJ990627_48.9A14.C9.o1.gp	Method	AAT/GAP
Start	3063	End	4247
GI	26378_1.R1084	Score	695
Exons	3063..3147, 3294..3401, 3707..3796, 4068..4247		
GI Descrip.	'4455227/emb|CAB36550.1| 2.0e-42 (AL035440) SNF8 like protein [Arabidopsis thaliana]'		
Seq. No.	15003	Seq. ID	OJ990627_48.9A14.C9
Gene No.	31897	Strand	-
Start	343	End	1505
Name	OJ990627_48.9A14.C9.o3.tm	Method	TBLASTX:Maize
Start	317	End	839
GI	none	Score	70
Exons	317..838, 327..587, 711..839		
Seq. No.	15003	Seq. ID	OJ990627_48.9A14.C9
Gene No.	31897	Strand	-
Start	343	End	1505
Name	OJ990627_48.9A14.C9.o1.np	Method	AAT/NAP
Start	343	End	1505
GI	421954	Score	675
Exons	343..1505		
GI Descrip.	hypothetical protein 3 - potato transposon Tst1 gi|21433|emb|CAA36615| (X52387) ORF3 [Solanum tuberosum]		

Seq. No.	15003	Seq. ID	OJ990627_48.9A14.C9
Gene No.	31897	Strand	-
Start	343	End	1505
Name	OJ990627_48.9A14.C9.o1.tc	Method	TBLASTX:Cress
Start	353	End	802
GI	none	Score	90
Exons	353..802, 603..800		

Seq. No.	15003	Seq. ID	OJ990627_48.9A14.C9
Gene No.	31897	Strand	-
Start	343	End	1505
Name	OJ990627_48.9A14.C9.o1.ts	Method	TBLASTX:Soybean
Start	356	End	817
GI	none	Score	284
Exons	356..817		

Seq. No.	15003	Seq. ID	OJ990627_48.9A14.C9
Gene No.	31897	Strand	-
Start	343	End	1505
Name	OJ990627_48.9A14.C9.o1.tw	Method	TBLASTX:Wheat
Start	374	End	980
GI	none	Score	62
Exons	374..496, 491..580, 504..581, 596..838, 600..830, 858..980		

Seq. No.	15003	Seq. ID	OJ990627_48.9A14.C9
Gene No.	31897	Strand	-
Start	343	End	1505
Name	OJ990627_48.9A14.C9.o1.tm	Method	TBLASTX:Maize
Start	888	End	1343
GI	none	Score	71
Exons	888..968, 889..966, 925..978, 999..1205, 1004..1123, 1005..1241, 1272..1343, 1279..1323		

Seq. No.	15003	Seq. ID	OJ990627_48.9A14.C9
Gene No.	31898	Strand	
Start	2694	End	3143
Name	OJ990627_48.9A14.C9.o4.tm	Method	TBLASTX:Maize
Start	2694	End	3015
GI	none	Score	233
Exons	2694..2882, 2695..2886, 2747..2887, 2747..2893, 2985..3014, 2989..3015		

Seq. No.	15003	Seq. ID	OJ990627_48.9A14.C9
Gene No.	31898	Strand	
Start	2694	End	3143
Name	OJ990627_48.9A14.C9.o2.ts	Method	TBLASTX:Soybean
Start	2742	End	3143
GI	none	Score	232
Exons	2742..2882, 2747..2926, 2749..2886, 3003..3143, 3004..3141		

Seq. No.	15003	Seq. ID	OJ990627_48.9A14.C9
Gene No.	31899	Strand	
Start	5266	End	5641
Name	OJ990627_48.9A14.C9.o2.tm	Method	TBLASTX:Maize
Start	5266	End	5641
GI	none	Score	131
Exons	5266..5367, 5266..5364, 5268..5378, 5367..5423, 5369..5422,		

5428..5637, 5429..5641, 5471..5641

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31900	Strand	+
Start	1381	End	4620
Name	OJ990627_48.9A14.C10.o1.gp	Method	AAT/GAP
Start	1243	End	1750
GI	none	Score	949
Exons	1243..1750		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31900	Strand	+
Start	1381	End	4620
Name	OJ990627_48.9A14.C10.o2.gs	Method	GENSCAN
Start	1381	End	4620
GI	none	Score	.64
Exons	1381..1895, 2122..2304, 3426..3712, 3797..4365, 4417..4620		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31901	Strand	+
Start	12213	End	13052
Name	OJ990627_48.9A14.C10.o4.gs	Method	GENSCAN
Start	12213	End	13052
GI	none	Score	.96
Exons	12213..13052		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31902	Strand	+
Start	16728	End	17684
Name	OJ990627_48.9A14.C10.o5.gs	Method	GENSCAN
Start	16728	End	17684
GI	none	Score	.9
Exons	16728..16989, 17384..17495, 17561..17684		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31903	Strand	-
Start	6049	End	10292
Name	OJ990627_48.9A14.C10.o2.gp	Method	AAT/GAP
Start	5798	End	7265
GI	1170_1.R1084	Score	1458
Exons	5798..6161, 6423..6657, 7091..7265		
GI Descrip.	'439879 3.0e-26 (L15194) [Golden delicious apple fruit expressed mRNA, complete cds.], gene product [Malus domestica]'		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31903	Strand	-
Start	6049	End	10292
Name	OJ990627_48.9A14.C10.o3.gs	Method	GENSCAN
Start	6049	End	10292
GI	none	Score	.42
Exons	6049..6161, 6377..6657, 7340..7430, 9255..9348, 10266..10292		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31903	Strand	-
Start	6049	End	10292
Name	OJ990627_48.9A14.C10.o2.np	Method	AAT/NAP
Start	6128	End	7196

GI	2605887	Score	298
Exons	6128..6161, 6423..6613, 7071..7196		
GI Descrip.	(AF029242) dormancy-associated protein [Pisum sativum]		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31904	Strand	-
Start	11751	End	12185
Name	OJ990627_48.9A14.C10.o3.gp	Method	AAT/GAP
Start	11751	End	12185
GI	90742_1.R1084	Score	110
Exons	11751..11830, 12165..12185		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 4.0e-29 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31905	Strand	-
Start	18185	End	18677
Name	OJ990627_48.9A14.C10.o1.tw	Method	TBLASTX:Wheat
Start	3724	End	4131
GI	none	Score	169
Exons	3724..3927, 3973..4131		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31905	Strand	-
Start	18185	End	18677
Name	OJ990627_48.9A14.C10.o1.tm	Method	TBLASTX:Maize
Start	5978	End	7199
GI	none	Score	65
Exons	5978..6079, 6046..6078, 6125..6160, 6127..6162, 6422..6529, 6423..6530, 7092..7199, 7092..7199		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31905	Strand	-
Start	18185	End	18677
Name	OJ990627_48.9A14.C10.o2.tw	Method	TBLASTX:Wheat
Start	6061	End	7262
GI	none	Score	38
Exons	6061..6081, 6124..6147, 6139..6162, 6422..6538, 6423..6539, 7088..7195, 7093..7164, 7095..7196, 7095..7205, 7233..7262		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31905	Strand	-
Start	18185	End	18677
Name	OJ990627_48.9A14.C10.o3.np	Method	AAT/NAP
Start	18185	End	18677
GI	6970289	Score	481
Exons	18185..18677		
GI Descrip.	(AC021666) hypothetical protein, 5' partial [Arabidopsis thaliana]		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31905	Strand	-
Start	18185	End	18677
Name	OJ990627_48.9A14.C10.o1.ts	Method	TBLASTX:Soybean
Start	18260	End	18442
GI	none	Score	71
Exons	18260..18442, 18285..18440		

Seq. No.	15004	Seq. ID	OJ990627_48.9A14.C10
Gene No.	31905	Strand	-
Start	18185	End	18677
Name	OJ990627_48.9A14.C10.o2.tm	Method	TBLASTX:Maize
Start	18368	End	18677
GI	none	Score	47
Exons	18368..18442, 18369..18452, 18449..18676, 18561..18677		

Seq. No.	15005	Seq. ID	OJ990627_48.9A14.C11
Gene No.	31906	Strand	+
Start	872	End	1421
Name	OJ990627_48.9A14.C11.o1.gs	Method	GENSCAN
Start	872	End	1337
GI	none	Score	.84
Exons	872..1337		

Seq. No.	15005	Seq. ID	OJ990627_48.9A14.C11
Gene No.	31906	Strand	+
Start	872	End	1421
Name	OJ990627_48.9A14.C11.o1.np	Method	AAT/NAP
Start	872	End	1421
GI	4512231	Score	950
Exons	872..1421		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	15006	Seq. ID	OJ990627_48.9A14.C12
Gene No.	31907	Strand	+
Start	100	End	526
Name	OJ990627_48.9A14.C12.o1.gs	Method	GENSCAN
Start	100	End	526
GI	none	Score	.48
Exons	100..526		

Seq. No.	15007	Seq. ID	OJ990627_48.9A14.C13
Gene No.	31908	Strand	-
Start	1	End	374
Name	OJ990627_48.9A14.C13.o1.np	Method	AAT/NAP
Start	1	End	374
GI	5295955	Score	103
Exons	1..235, 275..374		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	15008	Seq. ID	OJ990627_48.9A14.C14
Gene No.	31909	Strand	+
Start	1954	End	4076
Name	OJ990627_48.9A14.C14.o2.np	Method	AAT/NAP
Start	1954	End	4076
GI	6907086	Score	282
Exons	1954..2727, 2787..2957, 2988..3182, 3891..4076		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	15008	Seq. ID	OJ990627_48.9A14.C14
Gene No.	31910	Strand	-
Start	1328	End	3162
Name	OJ990627_48.9A14.C14.o1.gs	Method	GENSCAN

Start	1328	End	3162
GI	none	Score	.75
Exons	1328..1434, 2195..2369, 2391..2725, 3072..3162		

Seq. No.	15009	Seq. ID	OJ990627_48.9A14.C15
Gene No.	31911	Strand	-
Start	1	End	576
Name	OJ990627_48.9A14.C15.o1.np	Method	AAT/NAP
Start	1	End	576
GI	4680179	Score	464
Exons	1..576		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15009	Seq. ID	OJ990627_48.9A14.C15
Gene No.	31911	Strand	-
Start	1	End	576
Name	OJ990627_48.9A14.C15.o1.tw	Method	TBLASTX:Wheat
Start	3	End	359
GI	none	Score	56
Exons	3..359, 256..333		

Seq. No.	15009	Seq. ID	OJ990627_48.9A14.C15
Gene No.	31911	Strand	-
Start	1	End	576
Name	OJ990627_48.9A14.C15.o1.gs	Method	GENSCAN
Start	24	End	530
GI	none	Score	.44
Exons	24..530		

Seq. No.	15010	Seq. ID	OJ990627_48.9A14.C16
Gene No.	31912	Strand	+
Start	1	End	184
Name	OJ990627_48.9A14.C16.o1.np	Method	AAT/NAP
Start	1	End	184
GI	4206306	Score	242
Exons	1..184		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	15010	Seq. ID	OJ990627_48.9A14.C16
Gene No.	31912	Strand	+
Start	1	End	184
Name	OJ990627_48.9A14.C16.o1.tm	Method	TBLASTX:Maize
Start	1	End	184
GI	none	Score	85
Exons	1..183, 43..171, 62..184		

Seq. No.	15010	Seq. ID	OJ990627_48.9A14.C16
Gene No.	31912	Strand	+
Start	1	End	184
Name	OJ990627_48.9A14.C16.o1.tw	Method	TBLASTX:Wheat
Start	5	End	181
GI	none	Score	198
Exons	5..181, 67..180		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589

Name	OJ990627_48.9A14.C17.o1.gs	Method	GENSCAN
Start	754	End	7484
GI	none	Score	.88
Exons	754..5256, 5487..5515, 5554..6319, 7419..7484		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o1.np	Method	AAT/NAP
Start	757	End	5259
GI	4680179	Score	5443
Exons	757..4158, 4192..5259		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o6.tw	Method	TBLASTX:Wheat
Start	802	End	1135
GI	none	Score	125
Exons	802..1134, 823..1131, 866..1135		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o1.tm	Method	TBLASTX:Maize
Start	982	End	1581
GI	none	Score	204
Exons	982..1422, 998..1417, 1420..1581, 1427..1573		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o1.tw	Method	TBLASTX:Wheat
Start	1135	End	1761
GI	none	Score	64
Exons	1135..1761, 1138..1260, 1247..1705		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o4.tm	Method	TBLASTX:Maize
Start	1630	End	1921
GI	none	Score	210
Exons	1630..1920, 1634..1921		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o2.ts	Method	TBLASTX:Soybean
Start	1719	End	1980
GI	none	Score	155
Exons	1719..1850, 1720..1980, 1721..1975		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589

Name	OJ990627_48.9A14.C17.o1.tc	Method	TBLASTX:Cress
Start	1744	End	2061
GI	none	Score	78
Exons	1744..1887, 1745..1885, 1888..2061		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o2.tw	Method	TBLASTX:Wheat
Start	1767	End	2335
GI	none	Score	86
Exons	1767..2015, 1768..2232, 1768..2304, 1772..2335		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o2.tm	Method	TBLASTX:Maize
Start	2335	End	2691
GI	none	Score	235
Exons	2335..2688, 2339..2689, 2341..2691, 2397..2690		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o3.tw	Method	TBLASTX:Wheat
Start	2338	End	2760
GI	none	Score	364
Exons	2338..2760, 2339..2728		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o3.ts	Method	TBLASTX:Soybean
Start	2509	End	2754
GI	none	Score	93
Exons	2509..2754, 2510..2737		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o3.tm	Method	TBLASTX:Maize
Start	2725	End	3225
GI	none	Score	80
Exons	2725..3039, 3046..3225, 3071..3217		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o5.tw	Method	TBLASTX:Wheat
Start	2761	End	3063
GI	none	Score	272
Exons	2761..3063, 2777..3061, 2955..3062		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o1.ts	Method	TBLASTX:Soybean

Start	2775	End	3171
GI	none	Score	193
Exons	2775..2957, 2776..3135, 2777..3067, 3095..3133, 3139..3171, 3140..3169		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o4.tw	Method	TBLASTX:Wheat
Start	3112	End	3594
GI	none	Score	195
Exons	3112..3489, 3115..3480, 3155..3490, 3544..3594		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o5.tm	Method	TBLASTX:Maize
Start	3293	End	3582
GI	none	Score	137
Exons	3293..3484, 3295..3486, 3295..3582		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o8.tw	Method	TBLASTX:Wheat
Start	3709	End	4131
GI	none	Score	67
Exons	3709..3876, 3782..3877, 3922..4131, 3983..4075		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o7.tm	Method	TBLASTX:Maize
Start	3812	End	4167
GI	none	Score	44
Exons	3812..3904, 3814..4167, 3998..4075		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o7.tw	Method	TBLASTX:Wheat
Start	4450	End	4801
GI	none	Score	112
Exons	4450..4800, 4607..4801		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o6.tm	Method	TBLASTX:Maize
Start	4495	End	4800
GI	none	Score	90
Exons	4495..4800, 4670..4786		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o9.tw	Method	TBLASTX:Wheat

Start	4835	End	5207
GI	none	Score	116
Exons	4835..5032, 4837..5034, 5041..5061, 5145..5177, 5163..5207		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o1.gp	Method	AAT/GAP
Start	5590	End	6044
GI	95437_1.R1084	Score	774
Exons	5590..6044		
GI Descrip.	'4512226/dbj|AB014738.1|AB014738 1.0e-134 Oryza sativa gypsy-type retrotransposon RIRE3 DNA, internal region, complete sequence'		

Seq. No.	15011	Seq. ID	OJ990627_48.9A14.C17
Gene No.	31913	Strand	-
Start	754	End	7589
Name	OJ990627_48.9A14.C17.o2.gp	Method	AAT/GAP
Start	7204	End	7589
GI	uC-osflcyp033a04b1	Score	641
Exons	7204..7589		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31914	Strand	+
Start	6469	End	7705
Name	OJ990627_48.9A14.C18.o2.gs	Method	GENSCAN
Start	6469	End	7705
GI	none	Score	.69
Exons	6469..6527, 7222..7705		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31915	Strand	+
Start	10148	End	10489
Name	OJ990627_48.9A14.C18.o3.gs	Method	GENSCAN
Start	10148	End	10489
GI	none	Score	.55
Exons	10148..10489		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31916	Strand	-
Start	1	End	5100
Name	OJ990627_48.9A14.C18.o1.np	Method	AAT/NAP
Start	1	End	3961
GI	4680179	Score	6671
Exons	1..3961		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31916	Strand	-
Start	1	End	5100
Name	OJ990627_48.9A14.C18.o1.gs	Method	GENSCAN
Start	16	End	5100
GI	none	Score	.43
Exons	16..1854, 1871..3961, 4347..4382, 4507..5100		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31916	Strand	-
Start	1	End	5100
Name	OJ990627_48.9A14.C18.o2.np	Method	AAT/NAP
Start	4216	End	5034
GI	5042448	Score	1154
Exons	4216..5034		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o1.tw	Method	TBLASTX:Wheat
Start	38	End	12336
GI	none	Score	140
Exons	38..346, 38..292, 55..402, 11710..12336, 11711..11770, 11831..12277		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o1.tm	Method	TBLASTX:Maize
Start	61	End	12157
GI	none	Score	87
Exons	61..222, 68..214, 11572..11997, 11573..11770, 11593..11838, 11834..11998, 11995..12156, 12002..12157		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o3.tm	Method	TBLASTX:Maize
Start	271	End	12496
GI	none	Score	243
Exons	271..561, 275..562, 12205..12495, 12209..12496, 12209..12496		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o2.ts	Method	TBLASTX:Soybean
Start	361	End	12555
GI	none	Score	139
Exons	361..621, 362..610, 12295..12555, 12296..12544		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o1.tc	Method	TBLASTX:Cress
Start	385	End	12645
GI	none	Score	95
Exons	385..528, 386..526, 529..702, 12319..12462, 12320..12460, 12463..12645		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953

Name	OJ990627_48.9A14.C18.o3.tw	Method	TBLASTX:Wheat
Start	409	End	12834
GI	none	Score	240
Exons	409..888, 410..664, 442..855, 12342..12596, 12343..12834, 12347..12700		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o2.tw	Method	TBLASTX:Wheat
Start	892	End	12948
GI	none	Score	251
Exons	892..1401, 976..1323, 1058..1369, 12835..12879, 12910..12948		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o2.tm	Method	TBLASTX:Maize
Start	964	End	1329
GI	none	Score	155
Exons	964..1275, 976..1329, 1061..1327		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o3.ts	Method	TBLASTX:Soybean
Start	1150	End	1395
GI	none	Score	202
Exons	1150..1395		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o4.tm	Method	TBLASTX:Maize
Start	1366	End	1866
GI	none	Score	43
Exons	1366..1701, 1409..1459, 1484..1615, 1687..1866		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o5.tw	Method	TBLASTX:Wheat
Start	1402	End	1704
GI	none	Score	238
Exons	1402..1704, 1403..1672, 1411..1704		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o1.ts	Method	TBLASTX:Soybean
Start	1417	End	1812
GI	none	Score	164
Exons	1417..1776, 1418..1672, 1633..1776, 1768..1812, 1780..1812		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953

Name	OJ990627_48.9A14.C18.o4.tw	Method	TBLASTX:Wheat
Start	1753	End	2236
GI	none	Score	98
Exons	1753..1914, 1796..1912, 1901..2236, 1919..2107, 1926..2132		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o5.tm	Method	TBLASTX:Maize
Start	1935	End	2224
GI	none	Score	161
Exons	1935..2126, 1937..2224		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o8.tw	Method	TBLASTX:Wheat
Start	2393	End	2815
GI	none	Score	107
Exons	2393..2584, 2400..2555, 2466..2606, 2606..2815, 2667..2780		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o7.tm	Method	TBLASTX:Maize
Start	2498	End	2818
GI	none	Score	66
Exons	2498..2818, 2673..2774, 2683..2790		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o6.tm	Method	TBLASTX:Maize
Start	3158	End	3454
GI	none	Score	91
Exons	3158..3454, 3200..3454, 3267..3437		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o7.tw	Method	TBLASTX:Wheat
Start	3335	End	3698
GI	none	Score	96
Exons	3335..3694, 3336..3569, 3594..3698		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o4.gs	Method	GENSCAN
Start	11329	End	12726
GI	none	Score	.93
Exons	11329..12726		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o3.np	Method	AAT/NAP

Start	11332	End	12953
GI	4680179	Score	2385
Exons	11332..12953		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15012	Seq. ID	OJ990627_48.9A14.C18
Gene No.	31917	Strand	-
Start	11329	End	12953
Name	OJ990627_48.9A14.C18.o6.tw	Method	TBLASTX:Wheat
Start	11377	End	11710
GI	none	Score	141
Exons	11377..11709, 11429..11710		

Seq. No.	15013	Seq. ID	OJ990627_48.9A14.C19
Gene No.	31918	Strand	-
Start	1	End	859
Name	OJ990627_48.9A14.C19.o1.np	Method	AAT/NAP
Start	1	End	859
GI	4680179	Score	1109
Exons	1..859		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15013	Seq. ID	OJ990627_48.9A14.C19
Gene No.	31918	Strand	-
Start	1	End	859
Name	OJ990627_48.9A14.C19.o2.tw	Method	TBLASTX:Wheat
Start	2	End	274
GI	none	Score	50
Exons	2..274, 3..92		

Seq. No.	15013	Seq. ID	OJ990627_48.9A14.C19
Gene No.	31918	Strand	-
Start	1	End	859
Name	OJ990627_48.9A14.C19.o1.gs	Method	GENSCAN
Start	71	End	775
GI	none	Score	.5
Exons	71..775		

Seq. No.	15013	Seq. ID	OJ990627_48.9A14.C19
Gene No.	31918	Strand	-
Start	1	End	859
Name	OJ990627_48.9A14.C19.o1.tm	Method	TBLASTX:Maize
Start	302	End	655
GI	none	Score	215
Exons	302..655, 309..650		

Seq. No.	15013	Seq. ID	OJ990627_48.9A14.C19
Gene No.	31918	Strand	-
Start	1	End	859
Name	OJ990627_48.9A14.C19.o1.tw	Method	TBLASTX:Wheat
Start	302	End	727
GI	none	Score	322
Exons	302..727, 309..725		

Seq. No.	15013	Seq. ID	OJ990627_48.9A14.C19
Gene No.	31918	Strand	-
Start	1	End	859

Name	OJ990627_48.9A14.C19.o1.ts	Method	TBLASTX:Soybean
Start	473	End	721
GI	none	Score	209
Exons	473..721		

Seq. No.	15014	Seq. ID	OJ990627_48.9A14.C20
Gene No.	31919	Strand	+
Start	523	End	4874
Name	OJ990627_48.9A14.C20.o1.tc	Method	TBLASTX:Cress
Start	447	End	1752
GI	none	Score	82
Exons	447..593, 505..594, 1017..1214, 1303..1485, 1416..1487, 1657..1752, 1665..1748		

Seq. No.	15014	Seq. ID	OJ990627_48.9A14.C20
Gene No.	31919	Strand	+
Start	523	End	4874
Name	OJ990627_48.9A14.C20.o1.ts	Method	TBLASTX:Soybean
Start	507	End	1752
GI	none	Score	81
Exons	507..602, 523..594, 1017..1214, 1017..1205, 1019..1216, 1296..1484, 1303..1485, 1653..1748, 1654..1752		

Seq. No.	15014	Seq. ID	OJ990627_48.9A14.C20
Gene No.	31919	Strand	+
Start	523	End	4874
Name	OJ990627_48.9A14.C20.o1.np	Method	AAT/NAP
Start	523	End	1758
GI	3056593	Score	419
Exons	523..594, 1020..1253, 1285..1546, 1653..1758		
GI Descrip.	(AC004255) T1F9.14 [Arabidopsis thaliana]		

Seq. No.	15014	Seq. ID	OJ990627_48.9A14.C20
Gene No.	31919	Strand	+
Start	523	End	4874
Name	OJ990627_48.9A14.C20.o2.np	Method	AAT/NAP
Start	845	End	4874
GI	5734709	Score	272
Exons	845..880, 1020..1234, 1314..1535, 1653..1749, 4848..4874		
GI Descrip.	(AC008075) Contains PF|00069 Eukaryotic protein kinase domain. [Arabidopsis thaliana]		

Seq. No.	15014	Seq. ID	OJ990627_48.9A14.C20
Gene No.	31919	Strand	+
Start	523	End	4874
Name	OJ990627_48.9A14.C20.o1.tm	Method	TBLASTX:Maize
Start	1017	End	1508
GI	none	Score	185
Exons	1017..1214, 1019..1225, 1303..1485, 1320..1508		

Seq. No.	15014	Seq. ID	OJ990627_48.9A14.C20
Gene No.	31919	Strand	+
Start	523	End	4874
Name	OJ990627_48.9A14.C20.o1.tw	Method	TBLASTX:Wheat
Start	1151	End	1508
GI	none	Score	69
Exons	1151..1225, 1152..1214, 1294..1485, 1302..1508		

Seq. No.	15015	Seq. ID	OJ990627_48.9A14.C21
Gene No.	31920	Strand	+
Start	172	End	562
Name	OJ990627_48.9A14.C21.o1.tw	Method	TBLASTX:Wheat
Start	2	End	379
GI	none	Score	224
Exons	2..379		

Seq. No.	15015	Seq. ID	OJ990627_48.9A14.C21
Gene No.	31920	Strand	+
Start	172	End	562
Name	OJ990627_48.9A14.C21.o1.gs	Method	GENSCAN
Start	172	End	562
GI	none	Score	.43
Exons	172..562		

Seq. No.	15016	Seq. ID	OJ990627_48.9A14.C22
Gene No.	31921	Strand	-
Start	51	End	633
Name	OJ990627_48.9A14.C22.o1.gs	Method	GENSCAN
Start	51	End	633
GI	none	Score	.54
Exons	51..633		

Seq. No.	15017	Seq. ID	OJ990627_48.9A14.C23
Gene No.	31922	Strand	+
Start	483	End	1262
Name	OJ990627_48.9A14.C23.o1.gs	Method	GENSCAN
Start	483	End	1262
GI	none	Score	.96
Exons	483..694, 717..846, 1152..1262		

Seq. No.	15017	Seq. ID	OJ990627_48.9A14.C23
Gene No.	31922	Strand	+
Start	483	End	1262
Name	OJ990627_48.9A14.C23.o1.tm	Method	TBLASTX:Maize
Start	1005	End	1262
GI	none	Score	94
Exons	1005..1064, 1006..1062, 1149..1262, 1151..1261		

Seq. No.	15017	Seq. ID	OJ990627_48.9A14.C23
Gene No.	31922	Strand	+
Start	483	End	1262
Name	OJ990627_48.9A14.C23.o1.ts	Method	TBLASTX:Soybean
Start	1011	End	1262
GI	none	Score	63
Exons	1011..1055, 1012..1062, 1148..1261, 1149..1262		

Seq. No.	15017	Seq. ID	OJ990627_48.9A14.C23
Gene No.	31922	Strand	+
Start	483	End	1262
Name	OJ990627_48.9A14.C23.o1.tc	Method	TBLASTX:Cress
Start	1012	End	1262
GI	none	Score	69
Exons	1012..1062, 1020..1055, 1148..1261, 1149..1262		

Seq. No.	15018	Seq. ID	OJ990627_48.9A14.C24
Gene No.	31923	Strand	-
Start	604	End	825
Name	OJ990627_48.9A14.C24.o1.gs	Method	GENSCAN
Start	604	End	825
GI	none	Score	.59
Exons	604..626, 775..825		

Seq. No.	15019	Seq. ID	OJ990627_48.9A14.C25
Gene No.	31924	Strand	+
Start	1	End	286
Name	OJ990627_48.9A14.C25.o1.gp	Method	AAT/GAP
Start	1	End	286
GI	none	Score	555
Exons	1..286		

Seq. No.	15019	Seq. ID	OJ990627_48.9A14.C25
Gene No.	31924	Strand	+
Start	1	End	286
Name	OJ990627_48.9A14.C25.o1.gs	Method	GENSCAN
Start	136	End	249
GI	none	Score	.64
Exons	136..249		

Seq. No.	15020	Seq. ID	OJ990627_48.9A14.C26
Gene No.	31925	Strand	-
Start	1	End	368
Name	OJ990627_48.9A14.C26.o1.np	Method	AAT/NAP
Start	1	End	368
GI	6862956	Score	260
Exons	1..368		
GI Descrip.	(AC019018) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	15020	Seq. ID	OJ990627_48.9A14.C26
Gene No.	31925	Strand	-
Start	1	End	368
Name	OJ990627_48.9A14.C26.o1.tm	Method	TBLASTX:Maize
Start	11	End	367
GI	none	Score	127
Exons	11..367, 30..365		

Seq. No.	15020	Seq. ID	OJ990627_48.9A14.C26
Gene No.	31925	Strand	-
Start	1	End	368
Name	OJ990627_48.9A14.C26.o1.gs	Method	GENSCAN
Start	37	End	349
GI	none	Score	.45
Exons	37..349		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o1.tw	Method	TBLASTX:Wheat
Start	405	End	795
GI	none	Score	58
Exons	405..563, 434..793, 502..558, 513..794, 736..795		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o1.gs	Method	GENSCAN
Start	435	End	12981
GI	none	Score	.72
Exons	435..857, 947..1194, 1291..1424, 1509..1768, 1843..2035, 4945..5076, 6244..6305, 6845..6996, 7203..7362, 7917..8039, 8288..8396, 9032..9111, 9292..9373, 9547..9686, 9768..9878, 9981..10097, 10179..10268, 10689..10763, 11215..11486, 12028..12097, 12937..12981		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o1.np	Method	AAT/NAP
Start	435	End	2097
GI	3915095	Score	1989
Exons	435..1194, 1291..1424, 1501..2097		
GI Descrip.	TRANS-CINNAMATE 4-MONOOXYGENASE (CINNAMIC ACID 4-HYDROXYLASE) (CA4H) (C4H) (P450C4H) (CYTOCHROME P450 73) gi|1526537|dbj|BAA13414| (D87520) cytochrome P450 (CYP73A14) [Glycyrrhiza echinata]		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o1.tm	Method	TBLASTX:Maize
Start	486	End	2088
GI	none	Score	148
Exons	486..557, 516..620, 554..940, 624..929, 941..1204, 946..1077, 1328..1441, 1333..1371, 1487..1546, 1497..1547, 1550..1777, 1552..1800, 1553..1801, 1841..1912, 1872..2078, 1873..2088		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o1.tc	Method	TBLASTX:Cress
Start	513	End	2099
GI	none	Score	590
Exons	513..929, 554..937, 941..1195, 943..1011, 1289..1441, 1297..1371, 1487..1546, 1497..1547, 1550..1753, 1553..1801, 1621..1794, 1841..1912, 1852..2070, 1873..2091, 1875..2078, 2031..2099		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o1.ts	Method	TBLASTX:Soybean
Start	513	End	2103
GI	none	Score	618
Exons	513..929, 551..943, 736..843, 941..1195, 946..1077, 1289..1324, 1300..1371, 1316..1441, 1487..1546, 1497..1547, 1541..1774, 1553..1801, 1621..1797, 1841..1912, 1864..1911, 1873..2103, 1917..2078		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2

Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o2.tw	Method	TBLASTX:Wheat
Start	1911	End	2088
GI	none	Score	214
Exons	1911..2069, 1912..2088		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o3.ts	Method	TBLASTX:Soybean
Start	4944	End	5078
GI	none	Score	192
Exons	4944..5078, 4951..5076		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o2.tc	Method	TBLASTX:Cress
Start	4950	End	5154
GI	none	Score	193
Exons	4950..5090, 4951..5106, 5095..5154		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o2.np	Method	AAT/NAP
Start	4951	End	14009
GI	4895220	Score	1786
Exons	4951..5076, 6207..6305, 6845..6996, 7290..7362, 7917..8039, 8288..8396, 9032..9159, 9536..9686, 9768..9878, 9981..10097, 10179..10268, 10531..10584, 11215..11290, 11387..11486, 12028..12097, 12569..12636, 13709..13818, 13954..14009		
GI Descrip.	(AC007660) unknown protein [Arabidopsis thaliana]		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o1.gp	Method	AAT/GAP
Start	8328	End	9888
GI	uC-osflcyp078d08b1	Score	881
Exons	8328..8396, 9032..9111, 9292..9373, 9547..9686, 9768..9888		
GI Descrip.	'4895220/gb|AAD32806.1|AC007660_7 2.0e-58 (AC007660) unknown protein [Arabidopsis thaliana]'		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o3.tm	Method	TBLASTX:Maize
Start	9556	End	9806
GI	none	Score	205
Exons	9556..9684, 9557..9688, 9558..9692, 9764..9805, 9768..9806		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o2.ts	Method	TBLASTX:Soybean

Start	9767	End	10082
GI	none	Score	142
Exons	9767..9880, 9768..9881, 9788..9889, 9969..10082, 9980..10078		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o2.tm	Method	TBLASTX:Maize
Start	9807	End	12079
GI	none	Score	106
Exons	9807..9872, 9807..9872, 9808..9882, 9809..9892, 9809..9883, 9965..10120, 9965..10099, 9981..10121, 9981..10163, 10163..10267, 10175..10264, 10176..10271, 10180..10272, 10524..10586, 10533..10586, 10534..10587, 10686..10763, 10687..10767, 10692..10763, 11214..11291, 11214..11306, 11215..11325, 11379..11477, 11382..11477, 11383..11478, 11386..11490, 11390..11485, 12024..12074, 12026..12079		

Seq. No.	15021	Seq. ID	OJ990627_47.9A01.C2
Gene No.	31926	Strand	+
Start	435	End	14009
Name	OJ990627_47.9A01.C2.o2.gp	Method	AAT/GAP
Start	10523	End	12651
GI	58765_1.R1084	Score	739
Exons	10523..10584, 10689..10763, 11215..11290, 11387..11486, 12028..12097, 12563..12651		
GI Descrip.	'4895220/gb|AAD32806.1|AC007660_7 6.0e-36 (AC007660) unknown protein [Arabidopsis thaliana]'		

Seq. No.	15022	Seq. ID	OJ990627_47.9A01.C5
Gene No.	31927	Strand	+
Start	475	End	582
Name	OJ990627_47.9A01.C5.o1.np	Method	AAT/NAP
Start	475	End	582
GI	2498930	Score	50
Exons	475..582		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi|1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	15022	Seq. ID	OJ990627_47.9A01.C5
Gene No.	31928	Strand	+
Start	484	End	543
Name	OJ990627_47.9A01.C5.o1.gs	Method	GENSCAN
Start	484	End	543
GI	none	Score	.95
Exons	484..543		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31929	Strand	+
Start	12054	End	13491
Name	OJ990627_47.9A01.C6.o1.np	Method	AAT/NAP
Start	12054	End	13491
GI	6907088	Score	682
Exons	12054..12191, 12367..12605, 13100..13491		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6

Gene No.	31930	Strand	+
Start	16856	End	22577
Name	OJ990627_47.9A01.C6.o2.np	Method	AAT/NAP
Start	16856	End	22577
GI	6498441	Score	7127
Exons	16856..17920, 18250..18713, 18777..19150, 19334..19468, 19643..19983, 20251..20633, 20805..22202, 22296..22577		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31931	Strand	-
Start	292	End	1395
Name	OJ990627_47.9A01.C6.o1.gs	Method	GENSCAN
Start	292	End	1349
GI	none	Score	.75
Exons	292..445, 504..664, 686..845, 1060..1349		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31931	Strand	-
Start	292	End	1395
Name	OJ990627_47.9A01.C6.o1.gp	Method	AAT/GAP
Start	620	End	1395
GI	none	Score	1079
Exons	620..845, 1060..1395		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o1.ts	Method	TBLASTX:Soybean
Start	14750	End	19805
GI	none	Score	281
Exons	14750..14818, 19434..19805, 19451..19594		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o6.tw	Method	TBLASTX:Wheat
Start	17008	End	17397
GI	none	Score	44
Exons	17008..17052, 17059..17157, 17076..17156, 17124..17363, 17140..17397		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o4.tm	Method	TBLASTX:Maize
Start	17032	End	17295
GI	none	Score	200
Exons	17032..17295, 17049..17294		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o3.tw	Method	TBLASTX:Wheat
Start	18134	End	18620

GI	none	Score	400
Exons	18134..18307, 18135..18620, 18329..18589		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o1.tw	Method	TBLASTX:Wheat
Start	18785	End	19247
GI	none	Score	582
Exons	18785..19240, 18786..19247, 18786..19241		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o3.ts	Method	TBLASTX:Soybean
Start	18825	End	19190
GI	none	Score	114
Exons	18825..19049, 19056..19190		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o1.tm	Method	TBLASTX:Maize
Start	18915	End	19271
GI	none	Score	388
Exons	18915..19271, 18950..19261, 19155..19271		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o2.tm	Method	TBLASTX:Maize
Start	19298	End	19682
GI	none	Score	361
Exons	19298..19663, 19299..19682		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o2.tw	Method	TBLASTX:Wheat
Start	19355	End	19775
GI	none	Score	491
Exons	19355..19750, 19356..19775		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o5.tw	Method	TBLASTX:Wheat
Start	20478	End	20939
GI	none	Score	235
Exons	20478..20702, 20505..20756, 20570..20755, 20790..20939, 20801..20938		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o2.ts	Method	TBLASTX:Soybean
Start	20628	End	21194

GI	5666795	Score	67
Exons	20628..20726, 20802..20939, 20994..21194		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o8.tw	Method	TBLASTX:Wheat
Start	20942	End	21236
GI	none	Score	186
Exons	20942..21040, 20994..21236		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o3.tm	Method	TBLASTX:Maize
Start	21447	End	21790
GI	none	Score	358
Exons	21447..21770, 21476..21757, 21641..21790		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o4.tw	Method	TBLASTX:Wheat
Start	21584	End	21965
GI	none	Score	364
Exons	21584..21934, 21585..21965		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o7.tw	Method	TBLASTX:Wheat
Start	21966	End	25385
GI	none	Score	251
Exons	21966..22256, 21971..22249, 22442..22564, 22443..22568, 25302..25385		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o4.gs	Method	GENSCAN
Start	23203	End	26419
GI	none	Score	.48
Exons	23203..25063, 25158..25326, 25354..25556, 25698..26419		

Seq. No.	15023	Seq. ID	OJ990627_47.9A01.C6
Gene No.	31932	Strand	-
Start	23203	End	26419
Name	OJ990627_47.9A01.C6.o3.np	Method	AAT/NAP
Start	23206	End	26419
GI	6907089	Score	4470
Exons	23206..25063, 25158..26419		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	15024	Seq. ID	OJ990627_47.9A01.C7
Gene No.	31933	Strand	+
Start	1185	End	3045

Name	OJ990627_47.9A01.C7.o1.gs	Method	GENSCAN
Start	1185	End	3045
GI	none	Score	.98
Exons	1185..1564, 1745..1831, 2730..3045		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31934	Strand	+
Start	1	End	361
Name	OJ990627_47.9A01.C8.o1.gp	Method	AAT/GAP
Start	1	End	361
GI	LIB3433-003-Q6-K6-B7	Score	672
Exons	1..361		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 6.0e-28 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31935	Strand	+
Start	5269	End	7382
Name	OJ990627_47.9A01.C8.o2.gs	Method	GENSCAN
Start	5269	End	7382
GI	none	Score	.74
Exons	5269..5304, 5741..5905, 6127..6130, 6382..6542, 6621..7382		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31936	Strand	+
Start	7831	End	10453
Name	OJ990627_47.9A01.C8.o3.gs	Method	GENSCAN
Start	7831	End	9160
GI	none	Score	.89
Exons	7831..8638, 8763..9160		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31936	Strand	+
Start	7831	End	10453
Name	OJ990627_47.9A01.C8.o2.np	Method	AAT/NAP
Start	8209	End	10453
GI	2213632	Score	759
Exons	8209..8952, 10420..10453		
GI Descrip.	(AC000103) F21J9.24 [Arabidopsis thaliana]		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31937	Strand	-
Start	1556	End	3860
Name	OJ990627_47.9A01.C8.o1.np	Method	AAT/NAP
Start	1444	End	1667
GI	6069646	Score	125
Exons	1444..1667		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31937	Strand	-
Start	1556	End	3860
Name	OJ990627_47.9A01.C8.o1.gs	Method	GENSCAN

Start	1556	End	3860
GI	none	Score	.71
Exons	1556..1641, 2985..3275, 3800..3860		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31938	Strand	-
Start	7967	End	17271
Name	OJ990627_47.9A01.C8.o3.np	Method	AAT/NAP
Start	7967	End	12821
GI	2317934	Score	135
Exons	7967..8031, 11427..11939, 11995..12821		
GI Descrip.	(U97553) unknown [murine herpesvirus 68]		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31938	Strand	-
Start	7967	End	17271
Name	OJ990627_47.9A01.C8.o3.tw	Method	TBLASTX:Wheat
Start	7999	End	8319
GI	none	Score	182
Exons	7999..8319, 8073..8264		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31938	Strand	-
Start	7967	End	17271
Name	OJ990627_47.9A01.C8.o1.tm	Method	TBLASTX:Maize
Start	8164	End	8592
GI	none	Score	370
Exons	8164..8490, 8172..8489, 8494..8592, 8508..8591		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31938	Strand	-
Start	7967	End	17271
Name	OJ990627_47.9A01.C8.o1.tw	Method	TBLASTX:Wheat
Start	8323	End	8731
GI	none	Score	223
Exons	8323..8487, 8325..8483, 8494..8691, 8497..8607, 8511..8690, 8552..8692, 8642..8731		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31938	Strand	-
Start	7967	End	17271
Name	OJ990627_47.9A01.C8.o2.tm	Method	TBLASTX:Maize
Start	8593	End	8932
GI	none	Score	81
Exons	8593..8691, 8648..8827, 8686..8826, 8776..8829, 8867..8932, 8867..8929		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31938	Strand	-
Start	7967	End	17271
Name	OJ990627_47.9A01.C8.o2.tw	Method	TBLASTX:Wheat
Start	8732	End	8944
GI	none	Score	198
Exons	8732..8944, 8734..8928, 8807..8929		

Seq. No.	15025	Seq. ID	OJ990627_47.9A01.C8
Gene No.	31938	Strand	-

Start	7967	End	17271
Name	OJ990627_47.9A01.C8.o4.gs	Method	GENSCAN
Start	11122	End	17271
GI	none	Score	.46
Exons	11122..11186, 11468..11593, 11801..11894, 11988..12121, 12487..12676, 13114..13213, 13357..13417, 15165..16277, 16511..16651, 17133..17271		

Seq. No.	15026	Seq. ID	OJ990627_47.9A01.C9
Gene No.	31939	Strand	-
Start	1	End	3735
Name	OJ990627_47.9A01.C9.o1.np	Method	AAT/NAP
Start	1	End	3317
GI	4895218	Score	76
Exons	1..39, 2086..2202, 3212..3317		
GI Descrip.	(AC007660) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	15026	Seq. ID	OJ990627_47.9A01.C9
Gene No.	31939	Strand	-
Start	1	End	3735
Name	OJ990627_47.9A01.C9.o1.gs	Method	GENSCAN
Start	1503	End	3735
GI	none	Score	.71
Exons	1503..2202, 3212..3349, 3446..3735		

Seq. No.	15026	Seq. ID	OJ990627_47.9A01.C9
Gene No.	31940	Strand	-
Start	4295	End	5706
Name	OJ990627_47.9A01.C9.o2.gs	Method	GENSCAN
Start	4295	End	5706
GI	none	Score	.77
Exons	4295..4471, 4663..4779, 5664..5706		

Seq. No.	15027	Seq. ID	OJ990627_47.9A01.C10
Gene No.	31941	Strand	+
Start	175	End	2965
Name	OJ990627_47.9A01.C10.o1.gs	Method	GENSCAN
Start	175	End	2965
GI	none	Score	.71
Exons	175..223, 1105..1368, 1588..1811, 2303..2465, 2873..2965		

Seq. No.	15028	Seq. ID	OJ990627_47.9A01.C11
Gene No.	31942	Strand	-
Start	1	End	6447
Name	OJ990627_47.9A01.C11.o1.np	Method	AAT/NAP
Start	1	End	4552
GI	4895219	Score	103
Exons	1..32, 310..509, 1257..1335, 4514..4552		
GI Descrip.	(AC007660) putative WRKY-type DNA binding protein [Arabidopsis thaliana]		

Seq. No.	15028	Seq. ID	OJ990627_47.9A01.C11
Gene No.	31942	Strand	-
Start	1	End	6447
Name	OJ990627_47.9A01.C11.o1.gs	Method	GENSCAN
Start	13	End	6447
GI	none	Score	.45

Exons	13..266, 310..416, 4326..4354, 6197..6447		
Seq. No.	15029	Seq. ID	OJ990627_47.9A01.C12
Gene No.	31943	Strand	+
Start	56	End	2521
Name	OJ990627_47.9A01.C12.o1.gs	Method	GENSCAN
Start	56	End	2521
GI	none	Score	.45
Exons	56..131, 236..554, 731..760, 891..1083, 1304..1371, 1657..1804, 2345..2521		
Seq. No.	15029	Seq. ID	OJ990627_47.9A01.C12
Gene No.	31944	Strand	+
Start	4152	End	6132
Name	OJ990627_47.9A01.C12.o1.np	Method	AAT/NAP
Start	4152	End	6132
GI	6539570	Score	197
Exons	4152..4346, 4501..4567, 6112..6132		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		
Seq. No.	15029	Seq. ID	OJ990627_47.9A01.C12
Gene No.	31945	Strand	-
Start	3930	End	4361
Name	OJ990627_47.9A01.C12.o1.gp	Method	AAT/GAP
Start	3930	End	4361
GI	LIB3479-006-Q6-K1-B11	Score	596
Exons	3930..4361		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 1.0e-110 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		
Seq. No.	15029	Seq. ID	OJ990627_47.9A01.C12
Gene No.	31946	Strand	-
Start	8942	End	18890
Name	OJ990627_47.9A01.C12.o3.np	Method	AAT/NAP
Start	8942	End	9518
GI	6063557	Score	341
Exons	8942..9089, 9338..9518		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		
Seq. No.	15029	Seq. ID	OJ990627_47.9A01.C12
Gene No.	31946	Strand	-
Start	8942	End	18890
Name	OJ990627_47.9A01.C12.o4.np	Method	AAT/NAP
Start	9323	End	18890
GI	4895219	Score	113
Exons	9323..9429, 10807..10993, 13914..14017, 18042..18109, 18870..18890		
GI Descrip.	(AC007660) putative WRKY-type DNA binding protein [Arabidopsis thaliana]		
Seq. No.	15029	Seq. ID	OJ990627_47.9A01.C12
Gene No.	31946	Strand	-
Start	8942	End	18890
Name	OJ990627_47.9A01.C12.o3.gs	Method	GENSCAN
Start	10411	End	18226
GI	none	Score	.65
Exons	10411..10993, 13914..14021, 14298..14530, 17351..17438,		

17946..18226

Seq. No.	15030	Seq. ID	OJ990627_47.9A01.C13
Gene No.	31947	Strand	-
Start	342	End	413
Name	OJ990627_47.9A01.C13.o1.gs	Method	GENSCAN
Start	342	End	413
GI	none	Score	.54
Exons	342..413		

Seq. No.	15031	Seq. ID	OJ990627_47.9A01.C14
Gene No.	31948	Strand	-
Start	1	End	607
Name	OJ990627_47.9A01.C14.o1.np	Method	AAT/NAP
Start	1	End	607
GI	4895220	Score	107
Exons	1..229, 575..607		
GI Descrip.	(AC007660) unknown protein [Arabidopsis thaliana]		

Seq. No.	15031	Seq. ID	OJ990627_47.9A01.C14
Gene No.	31948	Strand	-
Start	1	End	607
Name	OJ990627_47.9A01.C14.o1.gs	Method	GENSCAN
Start	91	End	213
GI	none	Score	.93
Exons	91..213		

Seq. No.	15032	Seq. ID	OJ990627_47.9A01.C15
Gene No.	31949	Strand	-
Start	66	End	2205
Name	OJ990627_47.9A01.C15.o1.np	Method	AAT/NAP
Start	66	End	2205
GI	6466937	Score	1220
Exons	66..2205		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	15032	Seq. ID	OJ990627_47.9A01.C15
Gene No.	31949	Strand	-
Start	66	End	2205
Name	OJ990627_47.9A01.C15.o3.tm	Method	TBLASTX:Maize
Start	181	End	758
GI	none	Score	93
Exons	181..447, 182..358, 443..745, 444..758		

Seq. No.	15032	Seq. ID	OJ990627_47.9A01.C15
Gene No.	31949	Strand	-
Start	66	End	2205
Name	OJ990627_47.9A01.C15.o1.gs	Method	GENSCAN
Start	407	End	2135
GI	none	Score	.56
Exons	407..955, 1245..2135		

Seq. No.	15032	Seq. ID	OJ990627_47.9A01.C15
Gene No.	31949	Strand	-
Start	66	End	2205
Name	OJ990627_47.9A01.C15.o1.tw	Method	TBLASTX:Wheat

Start	584	End	1168
GI	none	Score	52
Exons	584..700, 788..964, 788..1168		

Seq. No.	15032	Seq. ID	OJ990627_47.9A01.C15
Gene No.	31949	Strand	-
Start	66	End	2205
Name	OJ990627_47.9A01.C15.o1.tm	Method	TBLASTX:Maize
Start	788	End	1421
GI	none	Score	312
Exons	788..1327, 789..1328, 1153..1332, 1217..1333, 1317..1421, 1357..1419		

Seq. No.	15032	Seq. ID	OJ990627_47.9A01.C15
Gene No.	31949	Strand	-
Start	66	End	2205
Name	OJ990627_47.9A01.C15.o1.ts	Method	TBLASTX:Soybean
Start	1016	End	1327
GI	none	Score	141
Exons	1016..1327, 1026..1301		

Seq. No.	15032	Seq. ID	OJ990627_47.9A01.C15
Gene No.	31949	Strand	-
Start	66	End	2205
Name	OJ990627_47.9A01.C15.o2.tw	Method	TBLASTX:Wheat
Start	1254	End	1652
GI	none	Score	60
Exons	1254..1328, 1256..1327, 1329..1652, 1366..1479		

Seq. No.	15032	Seq. ID	OJ990627_47.9A01.C15
Gene No.	31949	Strand	-
Start	66	End	2205
Name	OJ990627_47.9A01.C15.o2.tm	Method	TBLASTX:Maize
Start	1545	End	2166
GI	none	Score	127
Exons	1545..1652, 1671..1904, 1674..2165, 1735..2166		

Seq. No.	15032	Seq. ID	OJ990627_47.9A01.C15
Gene No.	31949	Strand	-
Start	66	End	2205
Name	OJ990627_47.9A01.C15.o2.ts	Method	TBLASTX:Soybean
Start	1845	End	2090
GI	none	Score	79
Exons	1845..2090, 1882..2088		

Seq. No.	15032	Seq. ID	OJ990627_47.9A01.C15
Gene No.	31949	Strand	-
Start	66	End	2205
Name	OJ990627_47.9A01.C15.o3.tw	Method	TBLASTX:Wheat
Start	1845	End	2189
GI	none	Score	70
Exons	1845..1952, 1965..2189, 1975..2181		

Seq. No.	15033	Seq. ID	OJ990627_47.9A01.C16
Gene No.	31950	Strand	-
Start	4296	End	4681
Name	OJ990627_47.9A01.C16.o1.np	Method	AAT/NAP

Start	4296	End	4681
GI	6539570	Score	77
Exons	4296..4362, 4515..4681		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	15034	Seq. ID	OJ990627_47.9A01.C17
Gene No.	31951	Strand	+
Start	250	End	337
Name	OJ990627_47.9A01.C17.o1.gs	Method	GENSCAN
Start	250	End	337
GI	none	Score	.85
Exons	250..337		

Seq. No.	15034	Seq. ID	OJ990627_47.9A01.C17
Gene No.	31952	Strand	-
Start	1872	End	2179
Name	OJ990627_47.9A01.C17.o2.gs	Method	GENSCAN
Start	1872	End	2179
GI	none	Score	.57
Exons	1872..1990, 2074..2179		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31953	Strand	+
Start	1	End	2339
Name	OJ990427_30.9A19.C1.o1.np	Method	AAT/NAP
Start	1	End	2336
GI	6630685	Score	1859
Exons	1..388, 419..654, 687..2336		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31953	Strand	+
Start	1	End	2339
Name	OJ990427_30.9A19.C1.o1.gs	Method	GENSCAN
Start	46	End	2339
GI	none	Score	.72
Exons	46..1113, 1359..1804, 1970..2339		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o3.tc	Method	TBLASTX:Cress
Start	1	End	383
GI	none	Score	132
Exons	1..231, 241..378, 243..383		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o3.tw	Method	TBLASTX:Wheat
Start	1	End	141
GI	none	Score	210
Exons	1..141, 3..134		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-

Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o3.tm	Method	TBLASTX:Maize
Start	1	End	384
GI	none	Score	303
Exons	1..246, 3..236, 232..384		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o3.ts	Method	TBLASTX:Soybean
Start	1	End	384
GI	none	Score	203
Exons	1..234, 1..120, 3..227, 256..384		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o1.ts	Method	TBLASTX:Soybean
Start	700	End	1312
GI	5509260	Score	40
Exons	700..750, 700..750, 772..1086, 807..1010, 1092..1307, 1115..1312		
GI Descrip.	-		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o1.tw	Method	TBLASTX:Wheat
Start	828	End	1304
GI	none	Score	83
Exons	828..917, 829..918, 898..1086, 960..1010, 1118..1288, 1122..1298, 1125..1304		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o4.tm	Method	TBLASTX:Maize
Start	838	End	1086
GI	none	Score	250
Exons	838..1086, 855..1010		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o2.tc	Method	TBLASTX:Cress
Start	934	End	1193
GI	none	Score	145
Exons	934..1086, 1086..1193		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o2.tm	Method	TBLASTX:Maize
Start	1112	End	1550
GI	none	Score	450
Exons	1112..1348, 1113..1550, 1116..1547		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1

Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o2.tw	Method	TBLASTX:Wheat
Start	1488	End	1916
GI	none	Score	96
Exons	1488..1637, 1659..1916, 1670..1798		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o1.tm	Method	TBLASTX:Maize
Start	1662	End	2318
GI	none	Score	710
Exons	1662..2318, 1670..2317		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o2.ts	Method	TBLASTX:Soybean
Start	1680	End	2348
GI	none	Score	293
Exons	1680..2078, 1784..2026, 2088..2348, 2102..2272		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o1.tc	Method	TBLASTX:Cress
Start	1953	End	2273
GI	none	Score	84
Exons	1953..2084, 2073..2273, 2105..2221		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o4.tw	Method	TBLASTX:Wheat
Start	1953	End	2273
GI	none	Score	84
Exons	1953..2075, 2082..2273, 2097..2273		

Seq. No.	15035	Seq. ID	OJ990427_30.9A19.C1
Gene No.	31954	Strand	-
Start	3358	End	6393
Name	OJ990427_30.9A19.C1.o2.np	Method	AAT/NAP
Start	3358	End	6393
GI	5852175	Score	107
Exons	3358..3390, 4022..4133, 6319..6393		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31955	Strand	+
Start	1	End	8408
Name	OJ990427_30.9A19.C2.o1.np	Method	AAT/NAP
Start	1	End	1722
GI	6815052	Score	1239
Exons	1..78, 283..418, 467..1164, 1246..1321, 1604..1722		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31955	Strand	+
Start	1	End	8408
Name	OJ990427_30.9A19.C2.o1.gs	Method	GENSCAN
Start	151	End	8408
GI	none	Score	.46
Exons	151..1321, 1604..1721, 1726..1866, 2223..2460, 2506..2665, 3080..3103, 5431..5558, 5750..5887, 6002..6275, 6401..6498, 6816..6908, 8349..8408		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31956	Strand	+
Start	8370	End	8480
Name	OJ990427_30.9A19.C2.o2.gp	Method	AAT/GAP
Start	8370	End	8480
GI	uC-osflcyp088b12b1	Score	143
Exons	8370..8480		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31957	Strand	+
Start	13524	End	17018
Name	OJ990427_30.9A19.C2.o2.np	Method	AAT/NAP
Start	13524	End	17018
GI	4388825	Score	1249
Exons	13524..13560, 15495..16251, 16297..16428, 16468..16781, 16832..17018		
GI Descrip.	(AC006528) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31958	Strand	+
Start	17047	End	22408
Name	OJ990427_30.9A19.C2.o4.gs	Method	GENSCAN
Start	17047	End	21055
GI	none	Score	.69
Exons	17047..17078, 17308..17417, 18085..18182, 18338..19250, 19432..19647, 19755..19972, 20585..21055		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31958	Strand	+
Start	17047	End	22408
Name	OJ990427_30.9A19.C2.o3.np	Method	AAT/NAP
Start	17650	End	19210
GI	6815053	Score	186
Exons	17650..17844, 19092..19210		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31958	Strand	+
Start	17047	End	22408
Name	OJ990427_30.9A19.C2.o4.np	Method	AAT/NAP
Start	18258	End	22408
GI	4388825	Score	230
Exons	18258..18414, 18517..18956, 22373..22408		
GI Descrip.	(AC006528) putative retroelement pol polyprotein [Arabidopsis		

thaliana]

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31959	Strand	+
Start	24594	End	26789
Name	OJ990427_30.9A19.C2.o5.np	Method	AAT/NAP
Start	24594	End	26789
GI	4309764	Score	432
Exons	24594..25195, 25292..25474, 26114..26233, 26767..26789		
GI Descrip.	(AC006217) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31960	Strand	+
Start	29819	End	30201
Name	OJ990427_30.9A19.C2.o6.np	Method	AAT/NAP
Start	29819	End	30201
GI	2462640	Score	321
Exons	29819..29876, 29907..30201		
GI Descrip.	(Y13370) reverse transcriptase [Oryza sativa]		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31961	Strand	+
Start	35565	End	36869
Name	OJ990427_30.9A19.C2.o7.gs	Method	GENSCAN
Start	35565	End	36869
GI	none	Score	1
Exons	35565..36869		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31961	Strand	+
Start	35565	End	36869
Name	OJ990427_30.9A19.C2.o8.np	Method	AAT/NAP
Start	35586	End	36836
GI	3924604	Score	557
Exons	35586..36836		
GI Descrip.	(AF069442) putative leucine-rich repeat protein [Arabidopsis thaliana]		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31962	Strand	+
Start	38222	End	38759
Name	OJ990427_30.9A19.C2.o8.gs	Method	GENSCAN
Start	38222	End	38759
GI	none	Score	.61
Exons	38222..38331, 38357..38759		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31963	Strand	+
Start	40960	End	42347
Name	OJ990427_30.9A19.C2.o10.np	Method	AAT/NAP
Start	40651	End	42347
GI	3645898	Score	565
Exons	40651..41742, 41782..42171, 42248..42347		
GI Descrip.	(U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31963	Strand	+
Start	40960	End	42347
Name	OJ990427_30.9A19.C2.o9.gs	Method	GENSCAN
Start	40960	End	41889
GI	none	Score	.95
Exons	40960..41889		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31964	Strand	+
Start	42309	End	44532
Name	OJ990427_30.9A19.C2.o10.gs	Method	GENSCAN
Start	42309	End	43811
GI	none	Score	.72
Exons	42309..42534, 42774..42910, 42945..43213, 43219..43349, 43714..43811		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31964	Strand	+
Start	42309	End	44532
Name	OJ990427_30.9A19.C2.o12.np	Method	AAT/NAP
Start	42395	End	44532
GI	6063554	Score	204
Exons	42395..42463, 42980..43227, 44351..44532		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31964	Strand	+
Start	42309	End	44532
Name	OJ990427_30.9A19.C2.o11.np	Method	AAT/NAP
Start	42910	End	43808
GI	5852178	Score	377
Exons	42910..43205, 43237..43342, 43706..43808		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31965	Strand	-
Start	9371	End	10698
Name	OJ990427_30.9A19.C2.o2.gs	Method	GENSCAN
Start	9371	End	10698
GI	none	Score	.43
Exons	9371..9555, 9678..9835, 10580..10698		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31966	Strand	-
Start	32470	End	35191
Name	OJ990427_30.9A19.C2.o6.gs	Method	GENSCAN
Start	32470	End	35191
GI	none	Score	.97
Exons	32470..32714, 34224..34404, 35129..35191		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31967	Strand	-
Start	39651	End	40779
Name	OJ990427_30.9A19.C2.o9.np	Method	AAT/NAP

Start	39651	End	40779
GI	6721507	Score	218
Exons	39651..39729, 39939..40001, 40274..40408, 40686..40779		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31968	Strand	-
Start	45118	End	47881
Name	OJ990427_30.9A19.C2.o11.gs	Method	GENSCAN
Start	45118	End	47881
GI	none	Score	.42
Exons	45118..45233, 45676..45969, 46337..46441, 47294..47353, 47359..47881		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o5.tw	Method	TBLASTX:Wheat
Start	12003	End	34607
GI	none	Score	284
Exons	12003..12260, 12004..12261, 12295..12357, 34378..34452, 34566..34607		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o10.tw	Method	TBLASTX:Wheat
Start	14122	End	46751
GI	none	Score	199
Exons	14122..14475, 46620..46751		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o6.tw	Method	TBLASTX:Wheat
Start	15647	End	16049
GI	none	Score	116
Exons	15647..15817, 15743..15805, 15793..15981, 15822..15974, 15981..16049		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o1.tw	Method	TBLASTX:Wheat
Start	16141	End	16572
GI	none	Score	514
Exons	16141..16572, 16143..16562		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o4.tm	Method	TBLASTX:Maize
Start	16330	End	16719
GI	none	Score	248
Exons	16330..16719		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2

Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o2.ts	Method	TBLASTX:Soybean
Start	16432	End	16785
GI	none	Score	66
Exons	16432..16497, 16497..16766, 16498..16785, 16570..16785		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o2.tw	Method	TBLASTX:Wheat
Start	16572	End	16856
GI	none	Score	91
Exons	16572..16856, 16574..16807, 16576..16839		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o4.tw	Method	TBLASTX:Wheat
Start	16857	End	17331
GI	none	Score	161
Exons	16857..16994, 16859..16990, 16860..16991, 16879..16995, 17059..17148, 17128..17331		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o1.tc	Method	TBLASTX:Cress
Start	17044	End	17394
GI	none	Score	53
Exons	17044..17121, 17125..17394		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o8.tw	Method	TBLASTX:Wheat
Start	18359	End	18724
GI	none	Score	110
Exons	18359..18502, 18545..18724, 18616..18723		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o3.ts	Method	TBLASTX:Soybean
Start	24537	End	24875
GI	none	Score	267
Exons	24537..24875, 24563..24874		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o3.tw	Method	TBLASTX:Wheat
Start	24564	End	25018
GI	none	Score	261
Exons	24564..24875, 24569..24799, 24884..25000, 24887..25018		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2

Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o1.ts	Method	TBLASTX:Soybean
Start	24887	End	25374
GI	none	Score	138
Exons	24887..25024, 24889..25023, 25023..25142, 25024..25275, 25285..25374		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o9.tw	Method	TBLASTX:Wheat
Start	25023	End	25278
GI	none	Score	209
Exons	25023..25277, 25024..25278		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o3.tm	Method	TBLASTX:Maize
Start	29885	End	30639
GI	none	Score	55
Exons	29885..29965, 29998..30255, 30007..30111, 30171..30254, 30304..30342, 30313..30348, 30377..30541, 30586..30639		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o1.tm	Method	TBLASTX:Maize
Start	30655	End	31068
GI	none	Score	227
Exons	30655..30900, 30765..30887, 30889..30951, 30961..31068		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o7.tw	Method	TBLASTX:Wheat
Start	30726	End	30990
GI	none	Score	262
Exons	30726..30950, 30736..30990		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o6.tm	Method	TBLASTX:Maize
Start	31318	End	31602
GI	none	Score	207
Exons	31318..31602		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o2.tm	Method	TBLASTX:Maize
Start	36195	End	36767
GI	none	Score	89
Exons	36195..36308, 36339..36455, 36491..36679, 36492..36689, 36702..36767		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o5.tm	Method	TBLASTX:Maize
Start	45722	End	46087
GI	none	Score	72
Exons	45722..45937, 45816..45932, 45962..46087, 45963..46070		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31969	Strand	-
Start	55245	End	57353
Name	OJ990427_30.9A19.C2.o13.np	Method	AAT/NAP
Start	55245	End	57353
GI	4680183	Score	177
Exons	55245..55334, 57260..57353		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	15036	Seq. ID	OJ990427_30.9A19.C2
Gene No.	31970	Strand	
Start	59036	End	59965
Name	OJ990427_30.9A19.C2.o7.tm	Method	TBLASTX:Maize
Start	59036	End	59965
GI	none	Score	71
Exons	59036..59191, 59039..59173, 59082..59111, 59083..59112, 59084..59194, 59110..59181, 59110..59169, 59110..59202, 59110..59208, 59116..59199, 59136..59210, 59219..59365, 59223..59339, 59228..59329, 59229..59339, 59233..59340, 59252..59335, 59260..59328, 59365..59538, 59376..59525, 59379..59528, 59379..59483, 59382..59489, 59382..59537, 59383..59493, 59386..59535, 59407..59493, 59462..59539, 59467..59565, 59474..59566, 59476..59565, 59527..59634, 59528..59620, 59548..59700, 59558..59626, 59597..59725, 59623..59700, 59628..59699, 59728..59883, 59730..59870, 59739..59864, 59747..59869, 59754..59861, 59755..59883, 59765..59914, 59765..59965, 59769..59921, 59875..59946		

Seq. No.	15037	Seq. ID	OJ990427_30.9A19.C3
Gene No.	31971	Strand	+
Start	737	End	1732
Name	OJ990427_30.9A19.C3.o1.gp	Method	AAT/GAP
Start	737	End	1367
GI	none	Score	1036
Exons	737..1004, 1094..1367		

Seq. No.	15037	Seq. ID	OJ990427_30.9A19.C3
Gene No.	31971	Strand	+
Start	737	End	1732
Name	OJ990427_30.9A19.C3.o1.gs	Method	GENSCAN
Start	752	End	1732
GI	none	Score	.43
Exons	752..952, 1094..1732		

Seq. No.	15037	Seq. ID	OJ990427_30.9A19.C3
Gene No.	31972	Strand	-
Start	1521	End	2022
Name	OJ990427_30.9A19.C3.o2.gp	Method	AAT/GAP

Start	1521	End	2022
GI	none	Score	920
Exons	1521..2022		

Seq. No.	15037	Seq. ID	OJ990427_30.9A19.C3
Gene No.	31973	Strand	-
Start	2206	End	5650
Name	OJ990427_30.9A19.C3.o2.gs	Method	GENSCAN
Start	2206	End	5594
GI	none	Score	.46
Exons	2206..2354, 3785..3889, 5352..5594		

Seq. No.	15037	Seq. ID	OJ990427_30.9A19.C3
Gene No.	31973	Strand	-
Start	2206	End	5650
Name	OJ990427_30.9A19.C3.o2.np	Method	AAT/NAP
Start	3985	End	5650
GI	6539588	Score	184
Exons	3985..4004, 5339..5650		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	15037	Seq. ID	OJ990427_30.9A19.C3
Gene No.	31973	Strand	-
Start	2206	End	5650
Name	OJ990427_30.9A19.C3.o1.np	Method	AAT/NAP
Start	4623	End	5261
GI	1708421	Score	127
Exons	4623..4786, 5214..5261		
GI Descrip.	ISOFLAVONE REDUCTASE HOMOLOG IRL gi|1205986 (U33318) sulfur starvation induced isoflavone reductase-like IRL [Zea mays]		

Seq. No.	15038	Seq. ID	OJ990427_30.9A19.C4
Gene No.	31974	Strand	+
Start	127	End	224
Name	OJ990427_30.9A19.C4.o1.gs	Method	GENSCAN
Start	127	End	224
GI	none	Score	.68
Exons	127..224		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31975	Strand	+
Start	224	End	486
Name	OJ990427_30.9A19.C5.o1.gs	Method	GENSCAN
Start	224	End	486
GI	none	Score	.72
Exons	224..486		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31976	Strand	+
Start	1624	End	2157
Name	OJ990427_30.9A19.C5.o3.gp	Method	AAT/GAP
Start	1624	End	2157
GI	uC-osf1M202048c12b1	Score	718
Exons	1624..2157		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 2.0e-16 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31977	Strand	-
Start	698	End	3408
Name	OJ990427_30.9A19.C5.o2.gs	Method	GENSCAN
Start	698	End	3408
GI	none	Score	.59
Exons	698..727, 1048..1166, 1566..1655, 1674..1790, 2324..2362, 2685..2936, 3192..3408		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31977	Strand	-
Start	698	End	3408
Name	OJ990427_30.9A19.C5.o1.gp	Method	AAT/GAP
Start	915	End	1174
GI	61605_3.R1084	Score	415
Exons	915..1174		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31977	Strand	-
Start	698	End	3408
Name	OJ990427_30.9A19.C5.o2.gp	Method	AAT/GAP
Start	915	End	1174
GI	61605_3.R1084	Score	419
Exons	915..1174		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31977	Strand	-
Start	698	End	3408
Name	OJ990427_30.9A19.C5.o1.np	Method	AAT/NAP
Start	1534	End	3325
GI	6063554	Score	699
Exons	1534..1727, 2685..2916, 3034..3325		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31978	Strand	-
Start	3846	End	9069
Name	OJ990427_30.9A19.C5.o3.gs	Method	GENSCAN
Start	3846	End	9069
GI	none	Score	.77
Exons	3846..4861, 4989..5491, 5634..5877, 6440..6567, 6756..6885, 7592..7599, 8284..8522, 8613..8747, 8851..9069		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31978	Strand	-
Start	3846	End	9069
Name	OJ990427_30.9A19.C5.o3.np	Method	AAT/NAP
Start	5083	End	9057
GI	3243234	Score	658
Exons	5083..5112, 6713..6885, 8284..8522, 8613..8747, 8851..9057		
GI Descrip.	(AF071477) isoflavone reductase related protein [Pyrus communis]		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31978	Strand	-
Start	3846	End	9069
Name	OJ990427_30.9A19.C5.o4.gp	Method	AAT/GAP
Start	6112	End	6538
GI	4968598	Score	712
Exons	6112..6538..		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31978	Strand	-
Start	3846	End	9069
Name	OJ990427_30.9A19.C5.o1.ts	Method	TBLASTX:Soybean
Start	6707	End	9052
GI	none	Score	127
Exons	6707..6880, 6713..6895, 6723..6908, 8286..8531, 8286..8534, 8287..8535, 8613..8747, 8614..8748, 8953..9051, 8972..9052		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31978	Strand	-
Start	3846	End	9069
Name	OJ990427_30.9A19.C5.o1.tc	Method	TBLASTX:Cress
Start	6713	End	9048
GI	none	Score	139
Exons	6713..6895, 6714..6908, 8286..8348, 8287..8346, 8346..8534, 8350..8535, 8613..8747, 8614..8748, 8852..8884, 8854..8889, 8953..9048, 8972..9046		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31978	Strand	-
Start	3846	End	9069
Name	OJ990427_30.9A19.C5.o2.tm	Method	TBLASTX:Maize
Start	6713	End	6895
GI	none	Score	122
Exons	6713..6895, 6726..6893		

Seq. No.	15039	Seq. ID	OJ990427_30.9A19.C5
Gene No.	31978	Strand	-
Start	3846	End	9069
Name	OJ990427_30.9A19.C5.o1.tm	Method	TBLASTX:Maize
Start	8292	End	8748
GI	none	Score	182
Exons	8292..8534, 8296..8535, 8613..8747, 8614..8748		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31979	Strand	+
Start	2173	End	4179
Name	OJ990427_30.9A19.C6.o1.gs	Method	GENSCAN
Start	2173	End	4179
GI	none	Score	.82
Exons	2173..2586, 2736..3032, 3582..3697, 3795..3881, 3999..4179		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31980	Strand	+
Start	19717	End	22606
Name	OJ990427_30.9A19.C6.o6.gs	Method	GENSCAN
Start	19717	End	22606

GI	none	Score	.58
Exons	19717..19730, 21928..22044, 22501..22606		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31981	Strand	-
Start	6215	End	8885
Name	OJ990427_30.9A19.C6.o2.gs	Method	GENSCAN
Start	6215	End	8885
GI	none	Score	.52
Exons	6215..6594, 7173..7331, 7698..8159, 8666..8885		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31981	Strand	-
Start	6215	End	8885
Name	OJ990427_30.9A19.C6.o1.np	Method	AAT/NAP
Start	6506	End	8160
GI	2522230	Score	279
Exons	6506..6586, 7531..8160		
GI Descrip.	(AB007467) retrotransposon-like gene; the first amino acid was determined to be leucine [Vicia faba]		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31982	Strand	-
Start	12078	End	14689
Name	OJ990427_30.9A19.C6.o4.gs	Method	GENSCAN
Start	12078	End	14689
GI	none	Score	.69
Exons	12078..12510, 12573..12726, 14638..14689		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31983	Strand	-
Start	15977	End	19115
Name	OJ990427_30.9A19.C6.o2.tw	Method	TBLASTX:Wheat
Start	9029	End	9376
GI	none	Score	90
Exons	9029..9241, 9260..9376		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31983	Strand	-
Start	15977	End	19115
Name	OJ990427_30.9A19.C6.o2.tm	Method	TBLASTX:Maize
Start	15968	End	16474
GI	none	Score	83
Exons	15968..16051, 15969..16037, 16055..16195, 16056..16196, 16084..16197, 16208..16474, 16209..16472		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31983	Strand	-
Start	15977	End	19115
Name	OJ990427_30.9A19.C6.o5.gs	Method	GENSCAN
Start	15977	End	19084
GI	none	Score	.94
Exons	15977..16751, 17067..18226, 18675..18782, 18929..19084		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31983	Strand	-
Start	15977	End	19115

Name	OJ990427_30.9A19.C6.o4.tm	Method	TBLASTX:Maize
Start	16476	End	16753
GI	none	Score	134
Exons	16476..16739, 16477..16698, 16496..16753		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31983	Strand	-
Start	15977	End	19115
Name	OJ990427_30.9A19.C6.o3.tm	Method	TBLASTX:Maize
Start	17066	End	17472
GI	none	Score	283
Exons	17066..17464, 17067..17468, 17068..17472		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31983	Strand	-
Start	15977	End	19115
Name	OJ990427_30.9A19.C6.o1.tw	Method	TBLASTX:Wheat
Start	17403	End	17768
GI	none	Score	116
Exons	17403..17540, 17440..17532, 17453..17548, 17513..17767, 17557..17763, 17562..17768		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31983	Strand	-
Start	15977	End	19115
Name	OJ990427_30.9A19.C6.o1.tm	Method	TBLASTX:Maize
Start	17474	End	17974
GI	none	Score	266
Exons	17474..17581, 17551..17772, 17558..17800, 17562..17768, 17809..17955, 17819..17974		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31983	Strand	-
Start	15977	End	19115
Name	OJ990427_30.9A19.C6.o1.tc	Method	TBLASTX:Cress
Start	17528	End	17768
GI	none	Score	93
Exons	17528..17767, 17546..17743, 17637..17768		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31983	Strand	-
Start	15977	End	19115
Name	OJ990427_30.9A19.C6.o1.ts	Method	TBLASTX:Soybean
Start	17528	End	17776
GI	none	Score	157
Exons	17528..17767, 17568..17768, 17651..17776		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31983	Strand	-
Start	15977	End	19115
Name	OJ990427_30.9A19.C6.o1.gp	Method	AAT/GAP
Start	17851	End	18040
GI	none	Score	348
Exons	17851..18040		

Seq. No.	15040	Seq. ID	OJ990427_30.9A19.C6
Gene No.	31983	Strand	-

Start	15977	End	19115
Name	OJ990427_30.9A19.C6.o2.ts	Method	TBLASTX:Soybean
Start	18669	End	19115
GI	none	Score	92
Exons	18669..18782, 18929..19114, 18930..19115		

Seq. No.	15041	Seq. ID	OJ990427_30.9A19.C9
Gene No.	31984	Strand	+
Start	385	End	690
Name	OJ990427_30.9A19.C9.o1.gs	Method	GENSCAN
Start	385	End	690
GI	none	Score	.87
Exons	385..690		

Seq. No.	15041	Seq. ID	OJ990427_30.9A19.C9
Gene No.	31985	Strand	+
Start	2274	End	7020
Name	OJ990427_30.9A19.C9.o1.np	Method	AAT/NAP
Start	2244	End	7020
GI	6630696	Score	2770
Exons	2244..4240, 6936..7020		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	15041	Seq. ID	OJ990427_30.9A19.C9
Gene No.	31985	Strand	+
Start	2274	End	7020
Name	OJ990427_30.9A19.C9.o2.gs	Method	GENSCAN
Start	2274	End	2738
GI	none	Score	.63
Exons	2274..2454, 2515..2738		

Seq. No.	15041	Seq. ID	OJ990427_30.9A19.C9
Gene No.	31986	Strand	+
Start	7497	End	9327
Name	OJ990427_30.9A19.C9.o1.gp	Method	AAT/GAP
Start	7344	End	7579
GI	5867_1.R1084	Score	138
Exons	7344..7437, 7550..7579		
GI Descrip.	'464986/sp|P35132|UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir__S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714_ (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis'		

Seq. No.	15041	Seq. ID	OJ990427_30.9A19.C9
Gene No.	31986	Strand	+
Start	7497	End	9327
Name	OJ990427_30.9A19.C9.o4.gs	Method	GENSCAN
Start	7497	End	9327
GI	none	Score	.82
Exons	7497..7623, 7971..8063, 9212..9327		

Seq. No.	15041	Seq. ID	OJ990427_30.9A19.C9

Gene No.	31987	Strand	-
Start	10845	End	11486
Name	OJ990427_30.9A19.C9.o2.tw	Method	TBLASTX:Wheat
Start	2250	End	2535
GI	none	Score	263
Exons	2250..2534, 2303..2521, 2374..2535, 2404..2535		

Seq. No.	15041	Seq. ID	OJ990427_30.9A19.C9
Gene No.	31987	Strand	-
Start	10845	End	11486
Name	OJ990427_30.9A19.C9.o2.tm	Method	TBLASTX:Maize
Start	2285	End	2596
GI	none	Score	282
Exons	2285..2596, 2286..2594		

Seq. No.	15041	Seq. ID	OJ990427_30.9A19.C9
Gene No.	31987	Strand	-
Start	10845	End	11486
Name	OJ990427_30.9A19.C9.o1.tm	Method	TBLASTX:Maize
Start	3097	End	3477
GI	none	Score	174
Exons	3097..3255, 3101..3256, 3118..3255, 3183..3434, 3259..3435, 3260..3388, 3262..3477, 3266..3451		

Seq. No.	15041	Seq. ID	OJ990427_30.9A19.C9
Gene No.	31987	Strand	-
Start	10845	End	11486
Name	OJ990427_30.9A19.C9.o3.tm	Method	TBLASTX:Maize
Start	3594	End	4025
GI	none	Score	69
Exons	3594..3704, 3762..4025, 3842..4018		

Seq. No.	15041	Seq. ID	OJ990427_30.9A19.C9
Gene No.	31987	Strand	-
Start	10845	End	11486
Name	OJ990427_30.9A19.C9.o1.ts	Method	TBLASTX:Soybean
Start	3815	End	4209
GI	none	Score	155
Exons	3815..4033, 3855..4034, 4036..4209		

Seq. No.	15041	Seq. ID	OJ990427_30.9A19.C9
Gene No.	31987	Strand	-
Start	10845	End	11486
Name	OJ990427_30.9A19.C9.o1.tw	Method	TBLASTX:Wheat
Start	3868	End	4233
GI	none	Score	142
Exons	3868..4026, 3869..4024, 3869..4048, 3870..4034, 4038..4232, 4039..4233		

Seq. No.	15041	Seq. ID	OJ990427_30.9A19.C9
Gene No.	31987	Strand	-
Start	10845	End	11486
Name	OJ990427_30.9A19.C9.o5.gs	Method	GENSCAN
Start	10845	End	11486
GI	none	Score	.47
Exons	10845..10909, 11330..11486		

Seq. No.	15042	Seq. ID	OJ990427_30.9A19.C10
Gene No.	31988	Strand	+
Start	66	End	220
Name	OJ990427_30.9A19.C10.o1.gs	Method	GENSCAN
Start	66	End	220
GI	none	Score	.8
Exons	66..220		

Seq. No.	15042	Seq. ID	OJ990427_30.9A19.C10
Gene No.	31989	Strand	-
Start	1	End	332
Name	OJ990427_30.9A19.C10.o1.np	Method	AAT/NAP
Start	1	End	332
GI	5042447	Score	507
Exons	1..332		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	15042	Seq. ID	OJ990427_30.9A19.C10
Gene No.	31989	Strand	-
Start	1	End	332
Name	OJ990427_30.9A19.C10.o1.tw	Method	TBLASTX:Wheat
Start	1	End	287
GI	none	Score	224
Exons	1..285, 1..243, 3..287		

Seq. No.	15042	Seq. ID	OJ990427_30.9A19.C10
Gene No.	31989	Strand	-
Start	1	End	332
Name	OJ990427_30.9A19.C10.o1.tm	Method	TBLASTX:Maize
Start	9	End	299
GI	none	Score	200
Exons	9..287, 10..234, 17..298, 246..299		

Seq. No.	15042	Seq. ID	OJ990427_30.9A19.C10
Gene No.	31989	Strand	-
Start	1	End	332
Name	OJ990427_30.9A19.C10.o1.ts	Method	TBLASTX:Soybean
Start	15	End	260
GI	none	Score	52
Exons	15..260, 16..81		

Seq. No.	15043	Seq. ID	OJ990427_30.9A19.C11
Gene No.	31990	Strand	+
Start	1	End	709
Name	OJ990427_30.9A19.C11.o1.np	Method	AAT/NAP
Start	1	End	709
GI	4558567	Score	145
Exons	1..309, 387..709		
GI Descrip.	(AC007138) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	15043	Seq. ID	OJ990427_30.9A19.C11
Gene No.	31990	Strand	+
Start	1	End	709
Name	OJ990427_30.9A19.C11.o1.tm	Method	TBLASTX:Maize
Start	1	End	488
GI	none	Score	230
Exons	1..306, 384..488		

Seq. No.	15043	Seq. ID	OJ990427_30.9A19.C11
Gene No.	31990	Strand	+
Start	1	End	709
Name	OJ990427_30.9A19.C11.o1.gs	Method	GENSCAN
Start	88	End	630
GI	none	Score	.73
Exons	88..309, 465..630		

Seq. No.	15044	Seq. ID	OJ990427_30.9A19.C12
Gene No.	31991	Strand	+
Start	183	End	559
Name	OJ990427_30.9A19.C12.o1.gs	Method	GENSCAN
Start	183	End	559
GI	none	Score	.46
Exons	183..354, 445..559		

Seq. No.	15045	Seq. ID	OJ990427_30.9A19.C13
Gene No.	31992	Strand	+
Start	339	End	523
Name	OJ990427_30.9A19.C13.o1.gs	Method	GENSCAN
Start	339	End	523
GI	none	Score	.82
Exons	339..459, 473..523		

Seq. No.	15046	Seq. ID	OJ990427_30.9A19.C14
Gene No.	31993	Strand	+
Start	944	End	1050
Name	OJ990427_30.9A19.C14.o1.np	Method	AAT/NAP
Start	944	End	1050
GI	5902444	Score	143
Exons	944..1050		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	15046	Seq. ID	OJ990427_30.9A19.C14
Gene No.	31994	Strand	-
Start	335	End	1020
Name	OJ990427_30.9A19.C14.o1.gs	Method	GENSCAN
Start	335	End	1020
GI	none	Score	.51
Exons	335..481, 808..1020		

Seq. No.	15047	Seq. ID	OJ990427_30.9A19.C15
Gene No.	31995	Strand	+
Start	1	End	460
Name	OJ990427_30.9A19.C15.o1.np	Method	AAT/NAP
Start	1	End	460
GI	4680183	Score	663
Exons	1..460		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	15047	Seq. ID	OJ990427_30.9A19.C15
Gene No.	31995	Strand	+
Start	1	End	460
Name	OJ990427_30.9A19.C15.o1.gs	Method	GENSCAN
Start	57	End	452
GI	none	Score	.55

Exons	57..129, 225..452		
Seq. No.	15047	Seq. ID	OJ990427_30.9A19.C15
Gene No.	31995	Strand	+
Start	1	End	460
Name	OJ990427_30.9A19.C15.o1.tw	Method	TBLASTX:Wheat
Start	66	End	401
GI	none	Score	172
Exons	66..401, 89..199		
Seq. No.	15048	Seq. ID	OJ990427_30.9A19.C16
Gene No.	31996	Strand	+
Start	1	End	1365
Name	OJ990427_30.9A19.C16.o1.gs	Method	GENSCAN
Start	1	End	1245
GI	none	Score	.42
Exons	1..485, 603..1245		
Seq. No.	15048	Seq. ID	OJ990427_30.9A19.C16
Gene No.	31996	Strand	+
Start	1	End	1365
Name	OJ990427_30.9A19.C16.o1.np	Method	AAT/NAP
Start	1	End	1365
GI	4680179	Score	1601
Exons	1..1365		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	15048	Seq. ID	OJ990427_30.9A19.C16
Gene No.	31996	Strand	+
Start	1	End	1365
Name	OJ990427_30.9A19.C16.o2.tw	Method	TBLASTX:Wheat
Start	402	End	858
GI	none	Score	52
Exons	402..821, 406..456, 480..632, 511..852, 541..858		
Seq. No.	15048	Seq. ID	OJ990427_30.9A19.C16
Gene No.	31996	Strand	+
Start	1	End	1365
Name	OJ990427_30.9A19.C16.o2.tm	Method	TBLASTX:Maize
Start	550	End	903
GI	none	Score	261
Exons	550..822, 811..903		
Seq. No.	15048	Seq. ID	OJ990427_30.9A19.C16
Gene No.	31996	Strand	+
Start	1	End	1365
Name	OJ990427_30.9A19.C16.o1.ts	Method	TBLASTX:Soybean
Start	826	End	1185
GI	none	Score	470
Exons	826..1185, 828..863, 909..1184		
Seq. No.	15048	Seq. ID	OJ990427_30.9A19.C16
Gene No.	31996	Strand	+
Start	1	End	1365
Name	OJ990427_30.9A19.C16.o1.tw	Method	TBLASTX:Wheat
Start	898	End	1299
GI	none	Score	511

Exons	898..1299, 909..1298		
Seq. No.	15048	Seq. ID	OJ990427_30.9A19.C16
Gene No.	31996	Strand	+
Start	1	End	1365
Name	OJ990427_30.9A19.C16.o1.tm	Method	TBLASTX:Maize
Start	919	End	1362
GI	none	Score	399
Exons	919..1362, 1053..1337		
Seq. No.	15049	Seq. ID	OJ990427_30.9A19.C17
Gene No.	31997	Strand	+
Start	1	End	1406
Name	OJ990427_30.9A19.C17.o1.np	Method	AAT/NAP
Start	1	End	1406
GI	4680179	Score	2002
Exons	1..1406		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	15049	Seq. ID	OJ990427_30.9A19.C17
Gene No.	31997	Strand	+
Start	1	End	1406
Name	OJ990427_30.9A19.C17.o2.tw	Method	TBLASTX:Wheat
Start	1	End	436
GI	none	Score	571
Exons	1..435, 2..436		
Seq. No.	15049	Seq. ID	OJ990427_30.9A19.C17
Gene No.	31997	Strand	+
Start	1	End	1406
Name	OJ990427_30.9A19.C17.o1.gs	Method	GENSCAN
Start	32	End	1311
GI	none	Score	.59
Exons	32..241, 410..526, 655..1311		
Seq. No.	15049	Seq. ID	OJ990427_30.9A19.C17
Gene No.	31997	Strand	+
Start	1	End	1406
Name	OJ990427_30.9A19.C17.o1.tc	Method	TBLASTX:Cress
Start	143	End	460
GI	none	Score	91
Exons	143..316, 319..459, 320..460		
Seq. No.	15049	Seq. ID	OJ990427_30.9A19.C17
Gene No.	31997	Strand	+
Start	1	End	1406
Name	OJ990427_30.9A19.C17.o1.ts	Method	TBLASTX:Soybean
Start	224	End	484
GI	none	Score	292
Exons	224..484, 229..483		
Seq. No.	15049	Seq. ID	OJ990427_30.9A19.C17
Gene No.	31997	Strand	+
Start	1	End	1406
Name	OJ990427_30.9A19.C17.o2.tm	Method	TBLASTX:Maize
Start	282	End	568
GI	none	Score	85

Exons	282..434, 283..567, 284..568		
Seq. No.	15049	Seq. ID	OJ990427_30.9A19.C17
Gene No.	31997	Strand	+
Start	1	End	1406
Name	OJ990427_30.9A19.C17.o1.tw	Method	TBLASTX:Wheat
Start	443	End	1068
GI	none	Score	128
Exons	443..568, 499..579, 567..1067, 568..1068		
Seq. No.	15049	Seq. ID	OJ990427_30.9A19.C17
Gene No.	31997	Strand	+
Start	1	End	1406
Name	OJ990427_30.9A19.C17.o1.tm	Method	TBLASTX:Maize
Start	622	End	1221
GI	none	Score	230
Exons	622..783, 630..776, 781..1221, 783..1205, 943..1206		
Seq. No.	15049	Seq. ID	OJ990427_30.9A19.C17
Gene No.	31997	Strand	+
Start	1	End	1406
Name	OJ990427_30.9A19.C17.o3.tw	Method	TBLASTX:Wheat
Start	1068	End	1401
GI	none	Score	323
Exons	1068..1337, 1069..1401, 1072..1380		
Seq. No.	15050	Seq. ID	OJ990427_30.9A19.C18
Gene No.	31998	Strand	+
Start	1	End	495
Name	OJ990427_30.9A19.C18.o1.np	Method	AAT/NAP
Start	1	End	495
GI	6705984	Score	816
Exons	1..495		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		
Seq. No.	15050	Seq. ID	OJ990427_30.9A19.C18
Gene No.	31998	Strand	+
Start	1	End	495
Name	OJ990427_30.9A19.C18.o2.tw	Method	TBLASTX:Wheat
Start	1	End	188
GI	none	Score	84
Exons	1..84, 1..81, 72..146, 73..183, 77..178, 78..188		
Seq. No.	15050	Seq. ID	OJ990427_30.9A19.C18
Gene No.	31998	Strand	+
Start	1	End	495
Name	OJ990427_30.9A19.C18.o1.tm	Method	TBLASTX:Maize
Start	1	End	380
GI	none	Score	51
Exons	1..87, 72..380		
Seq. No.	15050	Seq. ID	OJ990427_30.9A19.C18
Gene No.	31998	Strand	+
Start	1	End	495
Name	OJ990427_30.9A19.C18.o1.tw	Method	TBLASTX:Wheat
Start	219	End	495
GI	none	Score	392

Exons	219..494, 221..493, 415..495		
Seq. No.	15051	Seq. ID	OJ990427_30.9A19.C19
Gene No.	31999	Strand	+
Start	926	End	1083
Name	OJ990427_30.9A19.C19.o1.gs	Method	GENSCAN
Start	926	End	1083
GI	none	Score	.54
Exons	926..992, 1061..1083		
Seq. No.	15052	Seq. ID	OJ990427_30.9A19.C21
Gene No.	32000	Strand	-
Start	276	End	703
Name	OJ990427_30.9A19.C21.o1.np	Method	AAT/NAP
Start	275	End	703
GI	5902444	Score	576
Exons	275..703		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	15052	Seq. ID	OJ990427_30.9A19.C21
Gene No.	32000	Strand	-
Start	276	End	703
Name	OJ990427_30.9A19.C21.o1.gs	Method	GENSCAN
Start	276	End	578
GI	none	Score	.44
Exons	276..578		
Seq. No.	15053	Seq. ID	OJ990427_30.9A19.C22
Gene No.	32001	Strand	-
Start	164	End	511
Name	OJ990427_30.9A19.C22.o1.np	Method	AAT/NAP
Start	164	End	511
GI	4646206	Score	38
Exons	164..232, 474..511		
GI Descrip.	(AC007230) Contains similarity to gb|D13630 KIAA0005 gene from Homo sapiens. ESTs gb|T45345, gb|T21086, gb|R90360, gb|T20468, gb|T45191 and gb|AI100459 come from this gene. [Arabidopsis thaliana]		
Seq. No.	15054	Seq. ID	OJ990427_30.9A19.C24
Gene No.	32002	Strand	-
Start	126	End	340
Name	OJ990427_30.9A19.C24.o1.gs	Method	GENSCAN
Start	126	End	340
GI	none	Score	.71
Exons	126..231, 294..340		
Seq. No.	15055	Seq. ID	OJ990427_30.9A19.C25
Gene No.	32003	Strand	+
Start	439	End	572
Name	OJ990427_30.9A19.C25.o1.gs	Method	GENSCAN
Start	439	End	572
GI	none	Score	.61
Exons	439..572		
Seq. No.	15055	Seq. ID	OJ990427_30.9A19.C25
Gene No.	32004	Strand	-

Start	115	End	477
Name	OJ990427_30.9A19.C25.o1.gp	Method	AAT/GAP
Start	115	End	477
GI	12954_1.R1084	Score	639
Exons	115..477		
GI Descrip.	'4646206/gb|AAD26879.1|AC007230_13 0.0e+00 (AC007230) Contains similarity to gb_D13630 KIAA0005 gene from Homo sapiens. ESTs gb_T45345, gb_T21086, gb_R90360, gb_T20468, gb_T45191 and gb_AI100459 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	15056	Seq. ID	OJ990427_30.9A19.C27
Gene No.	32005	Strand	-
Start	273	End	479
Name	OJ990427_30.9A19.C27.o1.gs	Method	GENSCAN
Start	273	End	479
GI	none	Score	.75
Exons	273..479		

Seq. No.	15057	Seq. ID	OJ990427_30.9A19.C28
Gene No.	32006	Strand	+
Start	1	End	363
Name	OJ990427_30.9A19.C28.o1.np	Method	AAT/NAP
Start	1	End	363
GI	5902445	Score	568
Exons	1..363		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	15057	Seq. ID	OJ990427_30.9A19.C28
Gene No.	32007	Strand	-
Start	296	End	586
Name	OJ990427_30.9A19.C28.o1.tm	Method	TBLASTX:Maize
Start	61	End	315
GI	none	Score	166
Exons	61..234, 174..233, 213..314, 214..315		

Seq. No.	15057	Seq. ID	OJ990427_30.9A19.C28
Gene No.	32007	Strand	-
Start	296	End	586
Name	OJ990427_30.9A19.C28.o1.tw	Method	TBLASTX:Wheat
Start	117	End	372
GI	none	Score	58
Exons	117..254, 118..291, 331..372		

Seq. No.	15057	Seq. ID	OJ990427_30.9A19.C28
Gene No.	32007	Strand	-
Start	296	End	586
Name	OJ990427_30.9A19.C28.o1.gs	Method	GENSCAN
Start	296	End	586
GI	none	Score	.75
Exons	296..394, 484..586		

Seq. No.	15058	Seq. ID	OJ990427_30.9A19.C29
Gene No.	32008	Strand	-
Start	1	End	1174
Name	OJ990427_30.9A19.C29.o1.np	Method	AAT/NAP
Start	1	End	1174
GI	6691716	Score	669

Exons	1..96, 174..355, 432..532, 615..811, 999..1174		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	15058	Seq. ID	OJ990427_30.9A19.C29
Gene No.	32008	Strand	-
Start	1	End	1174
Name	OJ990427_30.9A19.C29.o1.gs	Method	GENSCAN
Start	214	End	1078
GI	none	Score	.43
Exons	214..401, 432..562, 615..904, 989..1078		
Seq. No.	15059	Seq. ID	OJ990427_30.9A19.C30
Gene No.	32009	Strand	+
Start	283	End	781
Name	OJ990427_30.9A19.C30.o1.np	Method	AAT/NAP
Start	283	End	781
GI	4680179	Score	352
Exons	283..781		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	15059	Seq. ID	OJ990427_30.9A19.C30
Gene No.	32009	Strand	+
Start	283	End	781
Name	OJ990427_30.9A19.C30.o1.gs	Method	GENSCAN
Start	448	End	701
GI	none	Score	.52
Exons	448..701		
Seq. No.	15059	Seq. ID	OJ990427_30.9A19.C30
Gene No.	32009	Strand	+
Start	283	End	781
Name	OJ990427_30.9A19.C30.o1.tw	Method	TBLASTX:Wheat
Start	487	End	720
GI	none	Score	201
Exons	487..525, 532..720, 534..719		
Seq. No.	15060	Seq. ID	OJ990427_30.9A19.C32
Gene No.	32010	Strand	-
Start	1	End	449
Name	OJ990427_30.9A19.C32.o1.np	Method	AAT/NAP
Start	1	End	449
GI	5911167	Score	331
Exons	1..449		
GI Descrip.	(AF136221) putative transposase protein [Zea mays]		
Seq. No.	15060	Seq. ID	OJ990427_30.9A19.C32
Gene No.	32010	Strand	-
Start	1	End	449
Name	OJ990427_30.9A19.C32.o1.gs	Method	GENSCAN
Start	144	End	329
GI	none	Score	.6
Exons	144..329		
Seq. No.	15061	Seq. ID	OJ990427_30.9A19.C33
Gene No.	32011	Strand	+

Start	1	End	1116
Name	OJ990427_30.9A19.C33.o1.np	Method	AAT/NAP
Start	1	End	1116
GI	4680186	Score	375
Exons	1..79, 916..1116		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	15061	Seq. ID	OJ990427_30.9A19.C33
Gene No.	32012	Strand	-
Start	1481	End	1979
Name	OJ990427_30.9A19.C33.o1.gp	Method	AAT/GAP
Start	669	End	1049
GI	uC-osflcyp033a04b1	Score	642
Exons	669..1049		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	15061	Seq. ID	OJ990427_30.9A19.C33
Gene No.	32012	Strand	-
Start	1481	End	1979
Name	OJ990427_30.9A19.C33.o1.gs	Method	GENSCAN
Start	1481	End	1979
GI	none	Score	.92
Exons	1481..1548, 1842..1876, 1912..1979		

Seq. No.	15062	Seq. ID	OJ990427_30.9A19.C34
Gene No.	32013	Strand	+
Start	1	End	678
Name	OJ990427_30.9A19.C34.o1.np	Method	AAT/NAP
Start	1	End	678
GI	629693	Score	212
Exons	1..678		
GI Descrip.	probable integrase - common tobacco (fragment) gi|530742|emb|CAA56791| (X80830) integrase [Nicotiana tabacum]		

Seq. No.	15063	Seq. ID	OJ990427_30.9A19.C35
Gene No.	32014	Strand	+
Start	1	End	101
Name	OJ990427_30.9A19.C35.o1.np	Method	AAT/NAP
Start	1	End	101
GI	4680180	Score	150
Exons	1..101		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15064	Seq. ID	OJ990427_30.9A19.C36
Gene No.	32015	Strand	-
Start	465	End	631
Name	OJ990427_30.9A19.C36.o1.gs	Method	GENSCAN
Start	465	End	631
GI	none	Score	.57
Exons	465..631		

Seq. No.	15065	Seq. ID	OJ990427_30.9A19.C37
Gene No.	32016	Strand	+
Start	1	End	491
Name	OJ990427_30.9A19.C37.o1.np	Method	AAT/NAP
Start	1	End	491

GI	5042448	Score	687
Exons	1..491		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	15066	Seq. ID	OJ990427_30.9A19.C39
Gene No.	32017	Strand	+
Start	1	End	560
Name	OJ990427_30.9A19.C39.o1.np	Method	AAT/NAP
Start	1	End	560
GI	1076802	Score	150
Exons	1..560		
GI Descrip.	extensin-like protein - maize gi|600118|emb|CAA84230| (Z34465) extensin-like protein [Zea mays] gi|1096557|prf||2111476A extensin-like domain [Zea mays]		

Seq. No.	15067	Seq. ID	OJ990427_30.9A19.C41
Gene No.	32018	Strand	+
Start	1	End	155
Name	OJ990427_30.9A19.C41.o1.np	Method	AAT/NAP
Start	1	End	155
GI	4680179	Score	242
Exons	1..155		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15068	Seq. ID	OJ990427_30.9A19.C42
Gene No.	32019	Strand	+
Start	1	End	534
Name	OJ990427_30.9A19.C42.o1.np	Method	AAT/NAP
Start	1	End	531
GI	4680179	Score	887
Exons	1..531		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15068	Seq. ID	OJ990427_30.9A19.C42
Gene No.	32019	Strand	+
Start	1	End	534
Name	OJ990427_30.9A19.C42.o1.tm	Method	TBLASTX:Maize
Start	4	End	294
GI	none	Score	338
Exons	4..294, 12..293		

Seq. No.	15068	Seq. ID	OJ990427_30.9A19.C42
Gene No.	32019	Strand	+
Start	1	End	534
Name	OJ990427_30.9A19.C42.o1.tw	Method	TBLASTX:Wheat
Start	64	End	521
GI	none	Score	454
Exons	64..486, 84..206, 181..261, 246..365, 468..521		

Seq. No.	15068	Seq. ID	OJ990427_30.9A19.C42
Gene No.	32019	Strand	+
Start	1	End	534
Name	OJ990427_30.9A19.C42.o1.gs	Method	GENSCAN
Start	232	End	534
GI	none	Score	.53
Exons	232..534		

Seq. No.	15068	Seq. ID	OJ990427_30.9A19.C42
Gene No.	32019	Strand	+
Start	1	End	534
Name	OJ990427_30.9A19.C42.o2.tm	Method	TBLASTX:Maize
Start	295	End	507
GI	none	Score	194
Exons	295..507		

Seq. No.	15069	Seq. ID	OJ990807_30.9A14.C1
Gene No.	32020	Strand	+
Start	8116	End	8929
Name	OJ990807_30.9A14.C1.o4.gs	Method	GENSCAN
Start	8116	End	8619
GI	none	Score	.99
Exons	8116..8137, 8546..8619		

Seq. No.	15069	Seq. ID	OJ990807_30.9A14.C1
Gene No.	32020	Strand	+
Start	8116	End	8929
Name	OJ990807_30.9A14.C1.o1.gp	Method	AAT/GAP
Start	8412	End	8929
GI	38782_1.R1084	Score	799
Exons	8412..8929		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	15069	Seq. ID	OJ990807_30.9A14.C1
Gene No.	32021	Strand	+
Start	9406	End	10186
Name	OJ990807_30.9A14.C1.o5.gs	Method	GENSCAN
Start	9406	End	10186
GI	none	Score	.67
Exons	9406..9440, 9879..10015, 10083..10186		

Seq. No.	15069	Seq. ID	OJ990807_30.9A14.C1
Gene No.	32022	Strand	-
Start	128	End	1406
Name	OJ990807_30.9A14.C1.o1.gs	Method	GENSCAN
Start	128	End	1406
GI	none	Score	.59
Exons	128..326, 495..885, 896..1406		

Seq. No.	15069	Seq. ID	OJ990807_30.9A14.C1
Gene No.	32023	Strand	-
Start	3384	End	4373
Name	OJ990807_30.9A14.C1.o2.gs	Method	GENSCAN
Start	3384	End	4373
GI	none	Score	.99
Exons	3384..4373		

Seq. No.	15069	Seq. ID	OJ990807_30.9A14.C1
Gene No.	32024	Strand	-
Start	6240	End	6976
Name	OJ990807_30.9A14.C1.o1.np	Method	AAT/NAP
Start	4979	End	6976
GI	6907086	Score	1363

Exons	4979..5070, 5121..5198, 5332..5514, 5638..5694, 5919..6165, 6223..6976		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	15069	Seq. ID	OJ990807_30.9A14.C1
Gene No.	32024	Strand	-
Start	6240	End	6976
Name	OJ990807_30.9A14.C1.o3.gs	Method	GENSCAN
Start	6240	End	6773
GI	none	Score	1
Exons	6240..6773		
Seq. No.	15069	Seq. ID	OJ990807_30.9A14.C1
Gene No.	32025	Strand	-
Start	7927	End	11070
Name	OJ990807_30.9A14.C1.o2.np	Method	AAT/NAP
Start	7927	End	11070
GI	4680186	Score	176
Exons	7927..8105, 8608..8671, 9054..9208, 10891..11070		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	15069	Seq. ID	OJ990807_30.9A14.C1
Gene No.	32025	Strand	-
Start	7927	End	11070
Name	OJ990807_30.9A14.C1.o2.gp	Method	AAT/GAP
Start	10197	End	10839
GI	none	Score	1188
Exons	10197..10839		
Seq. No.	15069	Seq. ID	OJ990807_30.9A14.C1
Gene No.	32025	Strand	-
Start	7927	End	11070
Name	OJ990807_30.9A14.C1.o6.gs	Method	GENSCAN
Start	10461	End	10676
GI	none	Score	1
Exons	10461..10676		
Seq. No.	15069	Seq. ID	OJ990807_30.9A14.C1
Gene No.	32025	Strand	-
Start	7927	End	11070
Name	OJ990807_30.9A14.C1.o1.tm	Method	TBLASTX:Maize
Start	10543	End	10683
GI	none	Score	199
Exons	10543..10683, 10548..10676		
Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32026	Strand	+
Start	7177	End	7338
Name	OJ990807_30.9A14.C3.o2.gp	Method	AAT/GAP
Start	7177	End	7338
GI	533_1.R1084	Score	173
Exons	7177..7262, 7285..7338		
GI Descrip.	'113172/sp|P15543|ACP3_HORVU 9.0e-52 ACYL CARRIER PROTEIN III PRECURSOR (ACP III) >gi_100561_pir__S17928 acyl carrier protein 3 - barley >gi_166971 (M58754) acyl carrier protein III [Hordeum vulgare]'		

Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32027	Strand	+
Start	7712	End	7986
Name	OJ990807_30.9A14.C3.o3.gp	Method	AAT/GAP
Start	7712	End	7986
GI	5816500	Score	358
Exons	7712..7986		
GI Descrip.	5091496/dbj|AB023482.2|AB023482 4.0e-44 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence		

Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o1.np	Method	AAT/NAP
Start	1	End	5032
GI	4467124	Score	443
Exons	1..718, 3093..3287, 5002..5032		
GI Descrip.	(AL035538) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o4.tm	Method	TBLASTX:Maize
Start	2	End	192
GI	none	Score	79
Exons	2..115, 3..86, 74..190, 75..191, 109..192		

Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o2.ts	Method	TBLASTX:Soybean
Start	26	End	356
GI	none	Score	128
Exons	26..355, 51..356		

Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o1.tc	Method	TBLASTX:Cress
Start	101	End	430
GI	none	Score	208
Exons	101..430		

Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o2.tm	Method	TBLASTX:Maize
Start	193	End	476
GI	none	Score	275
Exons	193..471, 194..472, 201..476		

Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o1.gs	Method	GENSCAN
Start	494	End	3590
GI	none	Score	.62

Exons	494..985, 1231..1290, 2568..3590		
Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o1.tm	Method	TBLASTX:Maize
Start	632	End	994
GI	none	Score	206
Exons	632..994, 634..894, 635..994		
Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o1.gp	Method	AAT/GAP
Start	2831	End	3282
GI	4969151	Score	857
Exons	2831..3282		
Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o2.np	Method	AAT/NAP
Start	3691	End	7761
GI	6686396	Score	269
Exons	3691..3737, 5258..5640, 7730..7761		
GI Descrip.	(AC007234) F1E22.10 [Arabidopsis thaliana]		
Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o2.gs	Method	GENSCAN
Start	4927	End	5742
GI	none	Score	.81
Exons	4927..5142, 5175..5507, 5509..5742		
Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o1.ts	Method	TBLASTX:Soybean
Start	5259	End	5640
GI	none	Score	104
Exons	5259..5519, 5509..5640		
Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o3.tm	Method	TBLASTX:Maize
Start	5259	End	5658
GI	none	Score	109
Exons	5259..5462, 5340..5501, 5509..5643, 5515..5658, 5520..5657		
Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o2.tc	Method	TBLASTX:Cress
Start	5259	End	5462
GI	none	Score	203

Exons	5259..5462		
Seq. No.	15070	Seq. ID	OJ990807_30.9A14.C3
Gene No.	32028	Strand	-
Start	1	End	8382
Name	OJ990807_30.9A14.C3.o3.gs	Method	GENSCAN
Start	6081	End	8382
GI	none	Score	.9
Exons	6081..6164, 6864..7009, 8007..8382		
Seq. No.	15071	Seq. ID	OJ990807_30.9A14.C4
Gene No.	32029	Strand	+
Start	3192	End	5662
Name	OJ990807_30.9A14.C4.o2.gs	Method	GENSCAN
Start	3192	End	5662
GI	none	Score	.86
Exons	3192..3295, 3411..3468, 3613..3716, 3748..3871, 4731..4783, 5181..5512, 5546..5662		
Seq. No.	15071	Seq. ID	OJ990807_30.9A14.C4
Gene No.	32030	Strand	-
Start	19	End	1376
Name	OJ990807_30.9A14.C4.o1.gs	Method	GENSCAN
Start	19	End	1376
GI	none	Score	.8
Exons	19..203, 1316..1376		
Seq. No.	15072	Seq. ID	OJ990807_30.9A14.C6
Gene No.	32031	Strand	+
Start	230	End	389
Name	OJ990807_30.9A14.C6.o1.np	Method	AAT/NAP
Start	230	End	389
GI	2496862	Score	86
Exons	230..389		
GI Descrip.	HYPOTHETICAL 6.1 KD PROTEIN C03B1.10 IN CHROMOSOME X gi|1072242 (U40952) C03B1.10 gene product [Caenorhabditis elegans]		
Seq. No.	15072	Seq. ID	OJ990807_30.9A14.C6
Gene No.	32032	Strand	+
Start	471	End	1095
Name	OJ990807_30.9A14.C6.o2.np	Method	AAT/NAP
Start	471	End	1095
GI	2498930	Score	704
Exons	471..534, 702..1095		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi|1203794 (U18774) Sog [Drosophila melanogaster]		
Seq. No.	15072	Seq. ID	OJ990807_30.9A14.C6
Gene No.	32032	Strand	+
Start	471	End	1095
Name	OJ990807_30.9A14.C6.o1.gs	Method	GENSCAN
Start	475	End	1003
GI	none	Score	.96
Exons	475..534, 702..1003		
Seq. No.	15073	Seq. ID	OJ990807_30.9A14.C8
Gene No.	32033	Strand	+

Start	2721	End	4574
Name	OJ990807_30.9A14.C8.o2.gs	Method	GENSCAN
Start	2721	End	4574
GI	none	Score	.69
Exons	2721..2750, 2969..3065, 3831..3901, 4434..4574		

Seq. No.	15073	Seq. ID	OJ990807_30.9A14.C8
Gene No.	32034	Strand	+
Start	4897	End	5627
Name	OJ990807_30.9A14.C8.o3.gs	Method	GENSCAN
Start	4897	End	5627
GI	none	Score	.92
Exons	4897..4999, 5485..5627		

Seq. No.	15073	Seq. ID	OJ990807_30.9A14.C8
Gene No.	32035	Strand	+
Start	5876	End	6164
Name	OJ990807_30.9A14.C8.o1.gp	Method	AAT/GAP
Start	5876	End	6164
GI	426253	Score	510
Exons	5876..6164		

Seq. No.	15073	Seq. ID	OJ990807_30.9A14.C8
Gene No.	32036	Strand	-
Start	1	End	5612
Name	OJ990807_30.9A14.C8.o1.np	Method	AAT/NAP
Start	1	End	5612
GI	118120	Score	99
Exons	1..85, 1700..1954, 5535..5612		
GI Descrip.	CYSTEINE PROTEINASE EP-B 1 PRECURSOR gi|82385|pir||JQ1111 cysteine proteinase (EC 3.4.22.-) EP-B 1 precursor - barley gi|1146116 (U19359) cysteine proteinase EPB1 precursor [Hordeum vulgare]		

Seq. No.	15073	Seq. ID	OJ990807_30.9A14.C8
Gene No.	32037	Strand	-
Start	6270	End	6315
Name	OJ990807_30.9A14.C8.o4.gs	Method	GENSCAN
Start	6270	End	6315
GI	none	Score	.87
Exons	6270..6315		

Seq. No.	15074	Seq. ID	OJ990807_30.9A14.C9
Gene No.	32038	Strand	+
Start	49	End	1822
Name	OJ990807_30.9A14.C9.o1.gs	Method	GENSCAN
Start	49	End	1822
GI	none	Score	.79
Exons	49..664, 1640..1822		

Seq. No.	15074	Seq. ID	OJ990807_30.9A14.C9
Gene No.	32039	Strand	+
Start	1975	End	6195
Name	OJ990807_30.9A14.C9.o2.gs	Method	GENSCAN
Start	1975	End	6195
GI	none	Score	.76
Exons	1975..2703, 2719..2779, 3374..3557, 5186..5443, 5454..6195		

Seq. No.	15075	Seq. ID	OJ990807_30.9A14.C10
Gene No.	32040	Strand	+
Start	202	End	1164
Name	OJ990807_30.9A14.C10.o1.gs	Method	GENSCAN
Start	202	End	1164
GI	none	Score	.69
Exons	202..1164		

Seq. No.	15075	Seq. ID	OJ990807_30.9A14.C10
Gene No.	32041	Strand	-
Start	2525	End	3174
Name	OJ990807_30.9A14.C10.o1.np	Method	AAT/NAP
Start	1481	End	3174
GI	6907086	Score	994
Exons	1481..1958, 2173..2340, 2398..3174		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	15075	Seq. ID	OJ990807_30.9A14.C10
Gene No.	32041	Strand	-
Start	2525	End	3174
Name	OJ990807_30.9A14.C10.o2.gs	Method	GENSCAN
Start	2525	End	2940
GI	none	Score	.44
Exons	2525..2940		

Seq. No.	15076	Seq. ID	OJ990807_30.9A14.C11
Gene No.	32042	Strand	+
Start	275	End	871
Name	OJ990807_30.9A14.C11.o1.gs	Method	GENSCAN
Start	275	End	871
GI	none	Score	.84
Exons	275..329, 798..871		

Seq. No.	15076	Seq. ID	OJ990807_30.9A14.C11
Gene No.	32043	Strand	-
Start	1	End	343
Name	OJ990807_30.9A14.C11.o1.np	Method	AAT/NAP
Start	1	End	343
GI	6907088	Score	173
Exons	1..30, 206..343		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	15077	Seq. ID	OJ990807_30.9A14.C12
Gene No.	32044	Strand	+
Start	4785	End	5153
Name	OJ990807_30.9A14.C12.o2.np	Method	AAT/NAP
Start	4785	End	5153
GI	132672	Score	372
Exons	4785..5153		
GI Descrip.	CHLOROPLAST 50S RIBOSOMAL PROTEIN L14 gi|71224|pir||R5RZ14 ribosomal protein L14 - rice chloroplast gi|12023|emb|CAA33932| (X15901) ribosomal protein L14 [Oryza sativa] gi|226644|prf||1603356BU ribosomal protein L14 [Oryza sativa]		

Seq. No.	15077	Seq. ID	OJ990807_30.9A14.C12
Gene No.	32045	Strand	-

Start	1682	End	4149
Name	OJ990807_30.9A14.C12.o1.np	Method	AAT/NAP
Start	1682	End	4149
GI	6523547	Score	171
Exons	1682..1798, 2021..2169, 2287..2537, 4120..4149		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	15077	Seq. ID	OJ990807_30.9A14.C12
Gene No.	32046	Strand	-
Start	4728	End	5066
Name	OJ990807_30.9A14.C12.o2.ts	Method	TBLASTX:Soybean
Start	1663	End	2247
GI	none	Score	109
Exons	1663..1827, 1780..1881, 1939..2019, 2095..2247		

Seq. No.	15077	Seq. ID	OJ990807_30.9A14.C12
Gene No.	32046	Strand	-
Start	4728	End	5066
Name	OJ990807_30.9A14.C12.o1.gp	Method	AAT/GAP
Start	4728	End	5044
GI	LIB3432-004-P1-K1-G2	Score	499
Exons	4728..5044		
GI Descrip.	'132672/sp|P12137|RK14_ORYSA 4.0e-50 CHLOROPLAST 50S RIBOSOMAL PROTEIN L14 >gi_71224_pir__R5RZ14 ribosomal protein L14 - rice chloroplast >gi_12023_emb_CAA33932_ (X15901) ribosomal protein L14 [Oryza sativa] >gi_226644_prf__1603356BU ribosomal protein L14 [Oryza sativa]'		

Seq. No.	15077	Seq. ID	OJ990807_30.9A14.C12
Gene No.	32046	Strand	-
Start	4728	End	5066
Name	OJ990807_30.9A14.C12.o1.tc	Method	TBLASTX:Cress
Start	4741	End	5066
GI	none	Score	89
Exons	4741..4863, 4743..4844, 4766..4864, 4778..4870, 4800..4877, 4858..4956, 4866..4958, 4959..5045, 4959..5066		

Seq. No.	15077	Seq. ID	OJ990807_30.9A14.C12
Gene No.	32046	Strand	-
Start	4728	End	5066
Name	OJ990807_30.9A14.C12.o1.tm	Method	TBLASTX:Maize
Start	4741	End	5015
GI	none	Score	145
Exons	4741..4863, 4741..4965, 4754..4966, 4754..4966, 4800..4970, 4970..5014, 4971..5015		

Seq. No.	15077	Seq. ID	OJ990807_30.9A14.C12
Gene No.	32046	Strand	-
Start	4728	End	5066
Name	OJ990807_30.9A14.C12.o1.ts	Method	TBLASTX:Soybean
Start	4742	End	5066
GI	none	Score	82
Exons	4742..4864, 4754..4870, 4800..4877, 4853..5026, 4861..4980, 4865..4996, 4866..5045, 4911..5066		

Seq. No.	15077	Seq. ID	OJ990807_30.9A14.C12

Gene No.	32046	Strand	-
Start	4728	End	5066
Name	OJ990807_30.9A14.C12.o1.tw	Method	TBLASTX:Wheat
Start	4905	End	5045
GI	none	Score	193
Exons	4905..5045, 4906..4983, 4907..4999, 4911..5033		

Seq. No.	15078	Seq. ID	OJ990807_30.9A14.C13
Gene No.	32047	Strand	-
Start	65	End	137
Name	OJ990807_30.9A14.C13.o1.gs	Method	GENSCAN
Start	65	End	137
GI	none	Score	.91
Exons	65..137		

Seq. No.	15079	Seq. ID	OJ990807_30.9A14.C14
Gene No.	32048	Strand	+
Start	223	End	2424
Name	OJ990807_30.9A14.C14.o1.gs	Method	GENSCAN
Start	223	End	2180
GI	none	Score	.82
Exons	223..400, 481..643, 1102..1162, 1184..1362, 2102..2180		

Seq. No.	15079	Seq. ID	OJ990807_30.9A14.C14
Gene No.	32048	Strand	+
Start	223	End	2424
Name	OJ990807_30.9A14.C14.o1.gp	Method	AAT/GAP
Start	1105	End	2424
GI	1382_1.R1084	Score	886
Exons	1105..1183, 1310..1362, 1500..1566, 2119..2424		
GI Descrip.	'3402817/emb|CAA07704| 3.0e-21 (AJ007829) lacZ'' [Cloning vector pGreen]'		

Seq. No.	15079	Seq. ID	OJ990807_30.9A14.C14
Gene No.	32049	Strand	-
Start	2850	End	3626
Name	OJ990807_30.9A14.C14.o2.gp	Method	AAT/GAP
Start	2518	End	3626
GI	896_1.R1084	Score	1895
Exons	2518..2706, 2816..3626		
GI Descrip.	'3402817/emb|CAA07704| 3.0e-21 (AJ007829) lacZ'' [Cloning vector pGreen]'		

Seq. No.	15079	Seq. ID	OJ990807_30.9A14.C14
Gene No.	32049	Strand	-
Start	2850	End	3626
Name	OJ990807_30.9A14.C14.o1.tw	Method	TBLASTX:Wheat
Start	2850	End	3141
GI	none	Score	399
Exons	2850..3140, 2854..3141		

Seq. No.	15079	Seq. ID	OJ990807_30.9A14.C14
Gene No.	32049	Strand	-
Start	2850	End	3626
Name	OJ990807_30.9A14.C14.o2.gs	Method	GENSCAN
Start	2850	End	3560
GI	none	Score	1

Exons	2850..3560		
Seq. No.	15079	Seq. ID	OJ990807_30.9A14.C14
Gene No.	32049	Strand	-
Start	2850	End	3626
Name	OJ990807_30.9A14.C14.o1.np	Method	AAT/NAP
Start	2853	End	3560
GI	3885892	Score	1181
Exons	2853..3560		
GI Descrip.	(AF093634) photosystem-1 F subunit precursor [Oryza sativa]		
Seq. No.	15079	Seq. ID	OJ990807_30.9A14.C14
Gene No.	32049	Strand	-
Start	2850	End	3626
Name	OJ990807_30.9A14.C14.o1.tm	Method	TBLASTX:Maize
Start	2853	End	3320
GI	none	Score	665
Exons	2853..3320, 2854..3318		
Seq. No.	15079	Seq. ID	OJ990807_30.9A14.C14
Gene No.	32049	Strand	-
Start	2850	End	3626
Name	OJ990807_30.9A14.C14.o1.tc	Method	TBLASTX:Cress
Start	2857	End	3326
GI	none	Score	437
Exons	2857..3318, 2868..3326		
Seq. No.	15079	Seq. ID	OJ990807_30.9A14.C14
Gene No.	32049	Strand	-
Start	2850	End	3626
Name	OJ990807_30.9A14.C14.o1.ts	Method	TBLASTX:Soybean
Start	2868	End	3326
GI	none	Score	457
Exons	2868..3326, 2869..3318		
Seq. No.	15080	Seq. ID	OJ990807_30.9A14.C17
Gene No.	32050	Strand	+
Start	701	End	1879
Name	OJ990807_30.9A14.C17.o1.gs	Method	GENSCAN
Start	701	End	1879
GI	none	Score	.55
Exons	701..874, 1772..1879		
Seq. No.	15080	Seq. ID	OJ990807_30.9A14.C17
Gene No.	32051	Strand	-
Start	2428	End	7398
Name	OJ990807_30.9A14.C17.o1.gp	Method	AAT/GAP
Start	2274	End	2680
GI	3767066	Score	735
Exons	2274..2680		
GI Descrip.	3402817/emb|CAA07704| 3.0e-21 (AJ007829) lacZ' [Cloning vector pGreen]		
Seq. No.	15080	Seq. ID	OJ990807_30.9A14.C17
Gene No.	32051	Strand	-
Start	2428	End	7398
Name	OJ990807_30.9A14.C17.o2.gs	Method	GENSCAN

Start	2428	End	7398
GI	none	Score	.68
Exons	2428..3250, 3454..3588, 3629..3844, 5233..5351, 5439..5611, 6441..6576, 6676..7398		

Seq. No.	15080	Seq. ID	OJ990807_30.9A14.C17
Gene No.	32051	Strand	-
Start	2428	End	7398
Name	OJ990807_30.9A14.C17.o2.gp	Method	AAT/GAP
Start	3224	End	3512
GI	3107294	Score	574
Exons	3224..3512		

Seq. No.	15081	Seq. ID	OJ990807_30.9A14.C18
Gene No.	32052	Strand	-
Start	2502	End	2960
Name	OJ990807_30.9A14.C18.o1.np	Method	AAT/NAP
Start	2502	End	2960
GI	3915000	Score	153
Exons	2502..2616, 2703..2801, 2882..2960		
GI Descrip.	SUPEROXIDE DISMUTASE [CU-ZN] gi|2305109 (AF009734) Cu/Zn superoxide dismutase [Capsicum annuum]		

Seq. No.	15081	Seq. ID	OJ990807_30.9A14.C18
Gene No.	32053	Strand	-
Start	3357	End	5644
Name	OJ990807_30.9A14.C18.o2.gs	Method	GENSCAN
Start	3357	End	5644
GI	none	Score	.52
Exons	3357..3388, 3499..3694, 4647..4794, 5529..5644		

Seq. No.	15081	Seq. ID	OJ990807_30.9A14.C18
Gene No.	32054	Strand	-
Start	7087	End	7440
Name	OJ990807_30.9A14.C18.o1.tm	Method	TBLASTX:Maize
Start	2532	End	3011
GI	none	Score	41
Exons	2532..2579, 2534..2575, 2579..2602, 2696..2794, 2697..2783, 2702..2803, 2704..2802, 2901..2978, 2907..3011		

Seq. No.	15081	Seq. ID	OJ990807_30.9A14.C18
Gene No.	32054	Strand	-
Start	7087	End	7440
Name	OJ990807_30.9A14.C18.o3.gs	Method	GENSCAN
Start	7087	End	7440
GI	none	Score	.95
Exons	7087..7440		

Seq. No.	15082	Seq. ID	OJ990527_24.9A20.C1
Gene No.	32055	Strand	+
Start	768	End	1298
Name	OJ990527_24.9A20.C1.o1.ts	Method	TBLASTX:Soybean
Start	8	End	735
GI	none	Score	114
Exons	8..163, 9..164, 28..165, 188..568, 192..578, 575..730, 575..607, 640..735		

Seq. No.	15082	Seq. ID	OJ990527_24.9A20.C1
Gene No.	32055	Strand	+
Start	768	End	1298
Name	OJ990527_24.9A20.C1.o1.tc	Method	TBLASTX:Cress
Start	41	End	758
GI	none	Score	363
Exons	41..619, 42..620, 341..622, 448..621, 642..758, 665..757, 723..758		

Seq. No.	15082	Seq. ID	OJ990527_24.9A20.C1
Gene No.	32055	Strand	+
Start	768	End	1298
Name	OJ990527_24.9A20.C1.o1.tm	Method	TBLASTX:Maize
Start	87	End	806
GI	none	Score	102
Exons	87..194, 87..191, 88..195, 88..192, 92..199, 162..686, 171..752, 191..715, 338..757, 723..752, 742..786, 747..806		

Seq. No.	15082	Seq. ID	OJ990527_24.9A20.C1
Gene No.	32055	Strand	+
Start	768	End	1298
Name	OJ990527_24.9A20.C1.o1.gs	Method	GENSCAN
Start	768	End	1298
GI	none	Score	.42
Exons	768..859, 1039..1298		

Seq. No.	15083	Seq. ID	OJ990527_24.9A20.C2
Gene No.	32056	Strand	-
Start	67	End	1656
Name	OJ990527_24.9A20.C2.o1.gs	Method	GENSCAN
Start	67	End	1656
GI	none	Score	.84
Exons	67..229, 1589..1656		

Seq. No.	15084	Seq. ID	OJ990527_24.9A20.C3
Gene No.	32057	Strand	+
Start	1528	End	1636
Name	OJ990527_24.9A20.C3.o1.gs	Method	GENSCAN
Start	1528	End	1636
GI	none	Score	.96
Exons	1528..1636		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32058	Strand	+
Start	69	End	915
Name	OJ990527_24.9A20.C4.o1.gs	Method	GENSCAN
Start	69	End	915
GI	none	Score	.99
Exons	69..915		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32059	Strand	+
Start	9030	End	10935
Name	OJ990527_24.9A20.C4.o2.np	Method	AAT/NAP
Start	8967	End	10935
GI	3080422	Score	154
Exons	8967..9458, 9534..9706, 10906..10935		

GI Descrip. (AL022604) putative zinc-finger protein [Arabidopsis thaliana]

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32059	Strand	+
Start	9030	End	10935
Name	OJ990527_24.9A20.C4.o4.gs	Method	GENSCAN
Start	9030	End	9821
GI	none	Score	.69
Exons	9030..9821		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32059	Strand	+
Start	9030	End	10935
Name	OJ990527_24.9A20.C4.o1.gp	Method	AAT/GAP
Start	9814	End	10237
GI	LIB3477-003-P1-K1-E9	Score	104
Exons	9814..9887, 10203..10237		

GI Descrip. '2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32060	Strand	+
Start	14181	End	16576
Name	OJ990527_24.9A20.C4.o6.gs	Method	GENSCAN
Start	14181	End	16576
GI	none	Score	.86
Exons	14181..14502, 16416..16576		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32061	Strand	+
Start	17252	End	17569
Name	OJ990527_24.9A20.C4.o7.gs	Method	GENSCAN
Start	17252	End	17569
GI	none	Score	.99
Exons	17252..17569		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32062	Strand	-
Start	3668	End	3910
Name	OJ990527_24.9A20.C4.o2.gs	Method	GENSCAN
Start	3668	End	3910
GI	none	Score	.44
Exons	3668..3910		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32063	Strand	-
Start	4506	End	6724
Name	OJ990527_24.9A20.C4.o1.np	Method	AAT/NAP
Start	4506	End	6724
GI	2565010	Score	461
Exons	4506..4525, 5614..6724		

GI Descrip. (AC002983) putative microfibril-associated protein [Arabidopsis thaliana] gi|3377811 (AF076275) contains similarity to ATP synthase B/B' (Pfam: ATP-synt_B.hmm, score: 11.71) [Arabidopsis thaliana]

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32063	Strand	-
Start	4506	End	6724
Name	OJ990527_24.9A20.C4.o3.gs	Method	GENSCAN
Start	4647	End	6691
GI	none	Score	.46
Exons	4647..4721, 4942..4971, 5684..6691		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32064	Strand	-
Start	11051	End	13330
Name	OJ990527_24.9A20.C4.o3.ts	Method	TBLASTX:Soybean
Start	5613	End	5758
GI	none	Score	147
Exons	5613..5750, 5621..5758		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32064	Strand	-
Start	11051	End	13330
Name	OJ990527_24.9A20.C4.o4.tm	Method	TBLASTX:Maize
Start	5639	End	5857
GI	none	Score	135
Exons	5639..5761, 5640..5759, 5804..5857, 5805..5843		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32064	Strand	-
Start	11051	End	13330
Name	OJ990527_24.9A20.C4.o1.tw	Method	TBLASTX:Wheat
Start	11039	End	11227
GI	none	Score	177
Exons	11039..11227, 11039..11215, 11049..11225		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32064	Strand	-
Start	11051	End	13330
Name	OJ990527_24.9A20.C4.o5.gs	Method	GENSCAN
Start	11051	End	13292
GI	none	Score	.97
Exons	11051..12973, 13047..13292		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32064	Strand	-
Start	11051	End	13330
Name	OJ990527_24.9A20.C4.o3.np	Method	AAT/NAP
Start	11054	End	13232
GI	6850871	Score	1101
Exons	11054..11413, 11546..12973, 13047..13232		
GI Descrip.	(AL132959) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32064	Strand	-
Start	11051	End	13330
Name	OJ990527_24.9A20.C4.o1.ts	Method	TBLASTX:Soybean
Start	11087	End	11905
GI	none	Score	166
Exons	11087..11242, 11267..11404, 11366..11467, 11650..11892, 11654..11905, 11657..11899		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32064	Strand	-
Start	11051	End	13330
Name	OJ990527_24.9A20.C4.o1.tm	Method	TBLASTX:Maize
Start	11102	End	11726
GI	none	Score	165
Exons	11102..11260, 11102..11365, 11152..11352, 11360..11500, 11385..11489, 11576..11644, 11578..11643, 11609..11725, 11610..11726		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32064	Strand	-
Start	11051	End	13330
Name	OJ990527_24.9A20.C4.o3.tm	Method	TBLASTX:Maize
Start	12260	End	12502
GI	none	Score	239
Exons	12260..12478, 12261..12479, 12461..12502		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32064	Strand	-
Start	11051	End	13330
Name	OJ990527_24.9A20.C4.o4.ts	Method	TBLASTX:Soybean
Start	12354	End	12655
GI	none	Score	76
Exons	12354..12443, 12356..12655, 12549..12650		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32064	Strand	-
Start	11051	End	13330
Name	OJ990527_24.9A20.C4.o2.tm	Method	TBLASTX:Maize
Start	12773	End	13330
GI	none	Score	229
Exons	12773..12991, 12774..12974, 12890..12985, 13035..13193, 13045..13215, 13244..13330		

Seq. No.	15085	Seq. ID	OJ990527_24.9A20.C4
Gene No.	32064	Strand	-
Start	11051	End	13330
Name	OJ990527_24.9A20.C4.o2.ts	Method	TBLASTX:Soybean
Start	12863	End	13193
GI	none	Score	124
Exons	12863..12979, 13032..13193		

Seq. No.	15086	Seq. ID	OJ990527_24.9A20.C5
Gene No.	32065	Strand	+
Start	1	End	6952
Name	OJ990527_24.9A20.C5.o1.gp	Method	AAT/GAP
Start	1	End	1143
GI	4878621	Score	558
Exons	1..94, 368..429, 518..619, 1084..1143		
GI Descrip.	2674203/gb|AAB88706.1| 8.0e-32 (AF036328) CLP protease regulatory subunit CLPX [Arabidopsis thaliana]		

Seq. No.	15086	Seq. ID	OJ990527_24.9A20.C5
Gene No.	32065	Strand	+
Start	1	End	6952

Name	OJ990527_24.9A20.C5.o1.tc	Method	TBLASTX:Cress
Start	1	End	6005
GI	none	Score	148
Exons	1..96, 2..97, 365..430, 365..418, 507..620, 518..619, 1079..1162, 1080..1163, 1080..1169, 1637..1690, 1638..1691, 2739..2819, 2770..2811, 2883..2966, 2885..2962, 2944..2979, 4069..4140, 4070..4171, 4581..4658, 4582..4659, 4731..4844, 4732..4845, 4945..5052, 4946..5053, 4946..5053, 5706..5795, 5708..5803, 5879..6001, 5880..6005, 5883..6002		

Seq. No.	15086	Seq. ID	OJ990527_24.9A20.C5
Gene No.	32065	Strand	+
Start	1	End	6952
Name	OJ990527_24.9A20.C5.o1.tm	Method	TBLASTX:Maize
Start	1	End	6005
GI	none	Score	147
Exons	1..96, 2..97, 6..98, 365..421, 365..415, 507..620, 518..622, 519..620, 1079..1159, 1080..1163, 1086..1163, 1634..1690, 1638..1691, 2739..2819, 2770..2811, 2883..2966, 2884..2970, 2885..2962, 4069..4137, 4070..4171, 4581..4658, 4582..4665, 4729..4824, 4731..4844, 4732..4845, 4922..5053, 4945..5052, 5706..5789, 5711..5788, 5879..6001, 5880..6005		

Seq. No.	15086	Seq. ID	OJ990527_24.9A20.C5
Gene No.	32065	Strand	+
Start	1	End	6952
Name	OJ990527_24.9A20.C5.o1.np	Method	AAT/NAP
Start	1	End	6952
GI	2674203	Score	1071
Exons	1..94, 368..429, 518..618, 1084..1163, 1638..1688, 2737..2811, 2886..2963, 4085..4141, 4588..4658, 4743..4842, 4946..5050, 5712..5774, 5880..6012, 6852..6952		
GI Descrip.	(AF036328) CLP protease regulatory subunit CLPX [Arabidopsis thaliana]		

Seq. No.	15086	Seq. ID	OJ990527_24.9A20.C5
Gene No.	32065	Strand	+
Start	1	End	6952
Name	OJ990527_24.9A20.C5.o1.gs	Method	GENSCAN
Start	1080	End	6002
GI	none	Score	.7
Exons	1080..1163, 1638..1688, 2737..2811, 2886..2963, 4588..4842, 5712..5774, 5880..6002		

Seq. No.	15086	Seq. ID	OJ990527_24.9A20.C5
Gene No.	32065	Strand	+
Start	1	End	6952
Name	OJ990527_24.9A20.C5.o2.gp	Method	AAT/GAP
Start	5703	End	6002
GI	12132_1.R1084	Score	332
Exons	5703..5774, 5880..6002		
GI Descrip.	'5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	15086	Seq. ID	OJ990527_24.9A20.C5
Gene No.	32065	Strand	+
Start	1	End	6952

Name	OJ990527_24.9A20.C5.o1.ts	Method	TBLASTX:Soybean
Start	5724	End	6005
GI	none	Score	80
Exons	5724..5795, 5726..5788, 5879..6001, 5880..6005, 5889..6002		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32066	Strand	+
Start	298	End	6375
Name	OJ990527_24.9A20.C6.o1.gp	Method	AAT/GAP
Start	298	End	1307
GI	12132_1.R1084	Score	808
Exons	298..455, 1026..1307		
GI Descrip.	'5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32066	Strand	+
Start	298	End	6375
Name	OJ990527_24.9A20.C6.o1.gs	Method	GENSCAN
Start	300	End	6375
GI	none	Score	.75
Exons	300..455, 1431..1557, 3035..3180, 4077..4121, 5486..5872, 6013..6375		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32066	Strand	+
Start	298	End	6375
Name	OJ990527_24.9A20.C6.o1.np	Method	AAT/NAP
Start	1736	End	6363
GI	5834248	Score	1331
Exons	1736..1830, 2712..2800, 3191..3297, 5486..5872, 6013..6363		
GI Descrip.	(AF175124) SINAH1 protein [Gossypium hirsutum]		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32067	Strand	+
Start	6301	End	6628
Name	OJ990527_24.9A20.C6.o3.gp	Method	AAT/GAP
Start	6301	End	6628
GI	286847	Score	601
Exons	6301..6628		
GI Descrip.	3264610/gb|AF061511|AF061511 1.0e-10 Zea mays seven in absentia homolog mRNA, partial cds		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32068	Strand	+
Start	7329	End	7812
Name	OJ990527_24.9A20.C6.o4.gp	Method	AAT/GAP
Start	7329	End	7812
GI	uC-osflcyp157c05a1	Score	940
Exons	7329..7812		
GI Descrip.	'4558547/gb|AAD22640.1|AC007138_4 2.0e-13 (AC007138) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32069	Strand	+
Start	11498	End	12707
Name	OJ990527_24.9A20.C6.o3.gs	Method	GENSCAN

Start	11498	End	12707
GI	none	Score	.55
Exons	11498..11664, 11901..12108, 12480..12707		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32070	Strand	-
Start	7630	End	10251
Name	OJ990527_24.9A20.C6.o2.gs	Method	GENSCAN
Start	7630	End	10251
GI	none	Score	.78
Exons	7630..7857, 7975..8183, 8479..8626, 8720..8809, 9052..9233, 9369..10251		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32070	Strand	-
Start	7630	End	10251
Name	OJ990527_24.9A20.C6.o2.np	Method	AAT/NAP
Start	7633	End	10251
GI	6650526	Score	1209
Exons	7633..7854, 7975..8193, 8342..8626, 8720..8809, 9052..9233, 9369..10251		
GI Descrip.	(AF101045) putative transcription factor X1 [Oryza sativa subsp. japonica]		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32070	Strand	-
Start	7630	End	10251
Name	OJ990527_24.9A20.C6.o5.gp	Method	AAT/GAP
Start	8501	End	9488
GI	uC-osflcyp157c05b1	Score	968
Exons	8501..8626, 8720..8809, 9052..9233, 9369..9488		
GI Descrip.	'2149018/gb|U70541|OSU70541 5.0e-25 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds'		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o5.tm	Method	TBLASTX:Maize
Start	297	End	1175
GI	none	Score	202
Exons	297..455, 298..432, 299..445, 372..482, 1038..1130, 1047..1130, 1121..1174, 1128..1175		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o1.tm	Method	TBLASTX:Maize
Start	3231	End	12324
GI	none	Score	126
Exons	3231..3293, 3232..3321, 3235..3297, 5464..5877, 5465..5875, 5465..5878, 5476..5877, 12205..12324		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o2.tc	Method	TBLASTX:Cress

Start	3231	End	6315
GI	none	Score	123
Exons	3231..3293, 3232..3306, 5999..6175, 6011..6133, 6019..6282, 6051..6281, 6283..6315		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o1.ts	Method	TBLASTX:Soybean
Start	5480	End	6381
GI	none	Score	690
Exons	5480..5875, 5482..5874, 6011..6160, 6013..6381, 6013..6354, 6051..6371		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o1.tc	Method	TBLASTX:Cress
Start	5533	End	5818
GI	none	Score	468
Exons	5533..5817, 5534..5815, 5534..5818		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o2.tm	Method	TBLASTX:Maize
Start	6011	End	6493
GI	none	Score	575
Exons	6011..6166, 6013..6342, 6051..6341, 6325..6396, 6467..6493		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o1.tw	Method	TBLASTX:Wheat
Start	7627	End	7800
GI	none	Score	190
Exons	7627..7800		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o3.tm	Method	TBLASTX:Maize
Start	7627	End	7851
GI	none	Score	225
Exons	7627..7851		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o5.tc	Method	TBLASTX:Cress
Start	7633	End	7857
GI	none	Score	194
Exons	7633..7857		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073

Name	OJ990527_24.9A20.C6.o6.tm	Method	TBLASTX:Maize
Start	7981	End	8236
GI	none	Score	62
Exons	7981..8079, 7985..8080, 8033..8236, 8077..8193		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o2.tw	Method	TBLASTX:Wheat
Start	8125	End	8761
GI	none	Score	54
Exons	8125..8193, 8345..8401, 8477..8629, 8720..8761		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o4.tc	Method	TBLASTX:Cress
Start	8134	End	9630
GI	none	Score	137
Exons	8134..8193, 8507..8641, 9052..9252, 9364..9630		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o4.tm	Method	TBLASTX:Maize
Start	8498	End	9039
GI	none	Score	61
Exons	8498..8629, 8708..8812, 8977..9039		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o2.ts	Method	TBLASTX:Soybean
Start	9853	End	10242
GI	none	Score	178
Exons	9853..9966, 9988..10053, 10045..10242		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o3.tc	Method	TBLASTX:Cress
Start	9871	End	10251
GI	none	Score	70
Exons	9871..10065, 10052..10132, 10057..10251, 10058..10135		

Seq. No.	15087	Seq. ID	OJ990527_24.9A20.C6
Gene No.	32071	Strand	-
Start	13205	End	14073
Name	OJ990527_24.9A20.C6.o4.gs	Method	GENSCAN
Start	13205	End	14073
GI	none	Score	.46
Exons	13205..13320, 13538..13734, 13988..14073		

Seq. No.	15088	Seq. ID	OJ990527_24.9A20.C7
Gene No.	32072	Strand	+
Start	2715	End	6585
Name	OJ990527_24.9A20.C7.o2.gs	Method	GENSCAN

Start	2715	End	6585
GI	none	Score	.45
Exons	2715..2811, 3007..3854, 4020..4112, 4148..4315, 4458..4554, 4578..4822, 4944..5462, 5709..5990, 6052..6585		

Seq. No.	15088	Seq. ID	OJ990527_24.9A20.C7
Gene No.	32072	Strand	+
Start	2715	End	6585
Name	OJ990527_24.9A20.C7.o1.np	Method	AAT/NAP
Start	3075	End	6555
GI	5803259	Score	1796
Exons	3075..4355, 4431..5465, 5600..5777, 5882..6555		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	15088	Seq. ID	OJ990527_24.9A20.C7
Gene No.	32073	Strand	-
Start	7265	End	8079
Name	OJ990527_24.9A20.C7.o1.tw	Method	TBLASTX:Wheat
Start	4497	End	7883
GI	none	Score	57
Exons	4497..4550, 7274..7399, 7430..7504, 7586..7882, 7626..7703, 7833..7883		

Seq. No.	15088	Seq. ID	OJ990527_24.9A20.C7
Gene No.	32073	Strand	-
Start	7265	End	8079
Name	OJ990527_24.9A20.C7.o2.np	Method	AAT/NAP
Start	7265	End	8079
GI	6498441	Score	1074
Exons	7265..7546, 7640..8079		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32074	Strand	+
Start	5255	End	5799
Name	OJ990527_24.9A20.C8.o2.np	Method	AAT/NAP
Start	5255	End	5799
GI	6539585	Score	204
Exons	5255..5424, 5724..5799		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-
Start	1	End	9570
Name	OJ990527_24.9A20.C8.o1.np	Method	AAT/NAP
Start	1	End	4517
GI	6498441	Score	3789
Exons	1..887, 1074..1747, 1922..2058, 2243..2616, 2680..3130, 3458..4517		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-

Start	1	End	9570
Name	OJ990527_24.9A20.C8.o3.tm	Method	TBLASTX:Maize
Start	3	End	230
GI	none	Score	124
Exons	3..230, 4..147		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-
Start	1	End	9570
Name	OJ990527_24.9A20.C8.o6.tw	Method	TBLASTX:Wheat
Start	3	End	339
GI	none	Score	74
Exons	3..230, 31..147, 226..339		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-
Start	1	End	9570
Name	OJ990527_24.9A20.C8.o1.gs	Method	GENSCAN
Start	146	End	9570
GI	none	Score	.41
Exons	146..349, 370..1439, 1567..1701, 2016..2143, 2193..2616, 2695..2787, 2812..2862, 2902..3613, 3622..4127, 4410..4611, 5507..5588, 5698..5784, 7533..7717, 9554..9570		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-
Start	1	End	9570
Name	OJ990527_24.9A20.C8.o1.ts	Method	TBLASTX:Soybean
Start	516	End	1079
GI	5666795	Score	57
Exons	516..698, 753..890, 981..1079		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-
Start	1	End	9570
Name	OJ990527_24.9A20.C8.o4.tw	Method	TBLASTX:Wheat
Start	753	End	1202
GI	none	Score	95
Exons	753..905, 757..894, 961..1134, 978..1181, 978..1202		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-
Start	1	End	9570
Name	OJ990527_24.9A20.C8.o3.tw	Method	TBLASTX:Wheat
Start	1635	End	2036
GI	none	Score	241
Exons	1635..1691, 1636..2031, 1734..2036		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-
Start	1	End	9570
Name	OJ990527_24.9A20.C8.o2.tm	Method	TBLASTX:Maize
Start	1737	End	2094
GI	none	Score	147
Exons	1737..2093, 1843..2094		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-
Start	1	End	9570
Name	OJ990527_24.9A20.C8.o2.ts	Method	TBLASTX:Soybean
Start	1824	End	2060
GI	none	Score	65
Exons	1824..2060, 1846..1941		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-
Start	1	End	9570
Name	OJ990527_24.9A20.C8.o1.tm	Method	TBLASTX:Maize
Start	2121	End	2478
GI	none	Score	155
Exons	2121..2159, 2158..2478, 2168..2443		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-
Start	1	End	9570
Name	OJ990527_24.9A20.C8.o1.tw	Method	TBLASTX:Wheat
Start	2167	End	2608
GI	none	Score	339
Exons	2167..2607, 2168..2608		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-
Start	1	End	9570
Name	OJ990527_24.9A20.C8.o2.tw	Method	TBLASTX:Wheat
Start	2608	End	3247
GI	none	Score	161
Exons	2608..2739, 2716..3246, 2735..3052, 3110..3247		

Seq. No.	15089	Seq. ID	OJ990527_24.9A20.C8
Gene No.	32075	Strand	-
Start	1	End	9570
Name	OJ990527_24.9A20.C8.o5.tw	Method	TBLASTX:Wheat
Start	3984	End	4330
GI	none	Score	106
Exons	3984..4244, 4015..4245, 4240..4326, 4241..4330		

Seq. No.	15090	Seq. ID	OJ990527_24.9A20.C9
Gene No.	32076	Strand	+
Start	40	End	876
Name	OJ990527_24.9A20.C9.o1.gs	Method	GENSCAN
Start	40	End	876
GI	none	Score	.7
Exons	40..201, 238..876		

Seq. No.	15090	Seq. ID	OJ990527_24.9A20.C9
Gene No.	32076	Strand	+
Start	40	End	876
Name	OJ990527_24.9A20.C9.o1.ts	Method	TBLASTX:Soybean
Start	40	End	789
GI	none	Score	161
Exons	40..201, 135..203, 280..339, 312..392, 471..572, 472..615, 610..789, 636..788		

Seq. No.	15090	Seq. ID	OJ990527_24.9A20.C9
Gene No.	32076	Strand	+
Start	40	End	876
Name	OJ990527_24.9A20.C9.o1.tm	Method	TBLASTX:Maize
Start	663	End	855
GI	none	Score	249
Exons	663..800, 664..855		

Seq. No.	15091	Seq. ID	OJ990527_24.9A20.C10
Gene No.	32077	Strand	+
Start	1364	End	3299
Name	OJ990527_24.9A20.C10.o1.np	Method	AAT/NAP
Start	1364	End	3299
GI	6006359	Score	53
Exons	1364..1407, 3149..3299		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	15091	Seq. ID	OJ990527_24.9A20.C10
Gene No.	32078	Strand	-
Start	1618	End	2148
Name	OJ990527_24.9A20.C10.o1.gs	Method	GENSCAN
Start	1618	End	2148
GI	none	Score	.78
Exons	1618..2148		

Seq. No.	15091	Seq. ID	OJ990527_24.9A20.C10
Gene No.	32079	Strand	-
Start	2562	End	2892
Name	OJ990527_24.9A20.C10.o2.gs	Method	GENSCAN
Start	2562	End	2892
GI	none	Score	.51
Exons	2562..2651, 2757..2817, 2822..2892		

Seq. No.	15092	Seq. ID	OJ990527_24.9A20.C11
Gene No.	32080	Strand	+
Start	180	End	1576
Name	OJ990527_24.9A20.C11.o1.gs	Method	GENSCAN
Start	180	End	1576
GI	none	Score	.75
Exons	180..347, 815..928, 983..1195, 1550..1576		

Seq. No.	15092	Seq. ID	OJ990527_24.9A20.C11
Gene No.	32081	Strand	-
Start	2515	End	8883
Name	OJ990527_24.9A20.C11.o2.gs	Method	GENSCAN
Start	2515	End	3359
GI	none	Score	.9
Exons	2515..2720, 2861..3125, 3300..3359		

Seq. No.	15092	Seq. ID	OJ990527_24.9A20.C11
Gene No.	32081	Strand	-
Start	2515	End	8883
Name	OJ990527_24.9A20.C11.o1.np	Method	AAT/NAP
Start	2521	End	8883
GI	3513738	Score	199
Exons	2521..2720, 2861..3357, 4044..4144, 4714..4889, 6238..6363, 8852..8883		

GI Descrip.	(AF080118) similar to the GDSL family of lipolytic enzymes [Arabidopsis thaliana]		
Seq. No.	15092	Seq. ID	OJ990527_24.9A20.C11
Gene No.	32081	Strand	-
Start	2515	End	8883
Name	OJ990527_24.9A20.C11.o1.tm	Method	TBLASTX:Maize
Start	2853	End	4958
GI	none	Score	52
Exons	2853..3032, 3039..3140, 3039..3140, 3202..3339, 4057..4092, 4123..4170, 4713..4790, 4719..4838, 4724..4891, 4812..4958, 4829..4894		
Seq. No.	15092	Seq. ID	OJ990527_24.9A20.C11
Gene No.	32081	Strand	-
Start	2515	End	8883
Name	OJ990527_24.9A20.C11.o1.tc	Method	TBLASTX:Cress
Start	2928	End	4925
GI	none	Score	192
Exons	2928..3128, 4057..4092, 4102..4182, 4719..4925		
Seq. No.	15092	Seq. ID	OJ990527_24.9A20.C11
Gene No.	32081	Strand	-
Start	2515	End	8883
Name	OJ990527_24.9A20.C11.o1.ts	Method	TBLASTX:Soybean
Start	4714	End	4958
GI	none	Score	94
Exons	4714..4881, 4716..4958		
Seq. No.	15093	Seq. ID	OJ990527_24.9A20.C12
Gene No.	32082	Strand	-
Start	1	End	125
Name	OJ990527_24.9A20.C12.o1.np	Method	AAT/NAP
Start	1	End	125
GI	133431	Score	146
Exons	1..125		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE BETA' CHAIN gi|66984|pir||RNZMB1 DNA-directed RNA polymerase (EC 2.7.7.6) beta'-1 chain - maize chloroplast gi|12481|emb|CAA35196| (X17318) RNA polymerase beta-1 subunit (AA 1-683) [Zea mays] gi|902213|emb|CAA60277| (X86563) RNA polymerase beta' subunit 1 [Zea mays]		
Seq. No.	15093	Seq. ID	OJ990527_24.9A20.C12
Gene No.	32083	Strand	-
Start	94	End	413
Name	OJ990527_24.9A20.C12.o2.np	Method	AAT/NAP
Start	94	End	413
GI	5739000	Score	101
Exons	94..316, 384..413		
GI Descrip.	(AB013667) photosystem II protein D2 [Anthoceros punctatus]		
Seq. No.	15094	Seq. ID	OJ990527_24.9A20.C14
Gene No.	32084	Strand	-
Start	1	End	70
Name	OJ990527_24.9A20.C14.o1.gp	Method	AAT/GAP
Start	1	End	70
GI	none	Score	140

Exons	1..70		
Seq. No.	15095	Seq. ID	OJ990527_24.9A20.C16
Gene No.	32085	Strand	+
Start	313	End	384
Name	OJ990527_24.9A20.C16.o1.gs	Method	GENSCAN
Start	313	End	384
GI	none	Score	.98
Exons	313..384		
Seq. No.	15096	Seq. ID	OJ990527_24.9A20.C18
Gene No.	32086	Strand	+
Start	172	End	323
Name	OJ990527_24.9A20.C18.o1.np	Method	AAT/NAP
Start	172	End	323
GI	6907086	Score	106
Exons	172..323		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	15096	Seq. ID	OJ990527_24.9A20.C18
Gene No.	32086	Strand	+
Start	172	End	323
Name	OJ990527_24.9A20.C18.o1.gs	Method	GENSCAN
Start	201	End	237
GI	none	Score	.57
Exons	201..237		
Seq. No.	15097	Seq. ID	OJ990527_24.9A20.C21
Gene No.	32087	Strand	-
Start	1	End	593
Name	OJ990527_24.9A20.C21.o1.gp	Method	AAT/GAP
Start	1	End	593
GI	288_1.R1084	Score	1161
Exons	1..593		
GI Descrip.	'1658313/emb|CAA70174| 0.0e+00 (Y08987) osr40g2 [Oryza sativa]'		
Seq. No.	15097	Seq. ID	OJ990527_24.9A20.C21
Gene No.	32087	Strand	-
Start	1	End	593
Name	OJ990527_24.9A20.C21.o1.np	Method	AAT/NAP
Start	1	End	175
GI	1658313	Score	261
Exons	1..175		
GI Descrip.	(Y08987) osr40g2 [Oryza sativa]		
Seq. No.	15097	Seq. ID	OJ990527_24.9A20.C21
Gene No.	32087	Strand	-
Start	1	End	593
Name	OJ990527_24.9A20.C21.o1.tm	Method	TBLASTX:Maize
Start	11	End	220
GI	none	Score	126
Exons	11..112, 17..220, 17..178, 18..158, 132..179		
Seq. No.	15097	Seq. ID	OJ990527_24.9A20.C21
Gene No.	32087	Strand	-
Start	1	End	593
Name	OJ990527_24.9A20.C21.o1.gs	Method	GENSCAN

Start	17	End	175
GI	none	Score	.85
Exons	17..175		

Seq. No.	15098	Seq. ID	OJ990527_24.9A20.C25
Gene No.	32088	Strand	-
Start	25	End	98
Name	OJ990527_24.9A20.C25.o1.gs	Method	GENSCAN
Start	25	End	98
GI	none	Score	.99
Exons	25..98		

Seq. No.	15099	Seq. ID	OJ990527_24.9A20.C29
Gene No.	32089	Strand	+
Start	247	End	381
Name	OJ990527_24.9A20.C29.o1.gs	Method	GENSCAN
Start	247	End	381
GI	none	Score	.63
Exons	247..381		

Seq. No.	15100	Seq. ID	OJ990527_24.9A20.C33
Gene No.	32090	Strand	+
Start	1	End	340
Name	OJ990527_24.9A20.C33.o1.np	Method	AAT/NAP
Start	1	End	340
GI	6069646	Score	124
Exons	1..76, 226..340		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	15100	Seq. ID	OJ990527_24.9A20.C33
Gene No.	32090	Strand	+
Start	1	End	340
Name	OJ990527_24.9A20.C33.o1.tm	Method	TBLASTX:Maize
Start	3	End	317
GI	none	Score	49
Exons	3..50, 104..307, 105..317		

Seq. No.	15100	Seq. ID	OJ990527_24.9A20.C33
Gene No.	32090	Strand	+
Start	1	End	340
Name	OJ990527_24.9A20.C33.o1.gs	Method	GENSCAN
Start	84	End	221
GI	none	Score	.65
Exons	84..221		

Seq. No.	15101	Seq. ID	OJ990527_24.9A20.C37
Gene No.	32091	Strand	+
Start	1	End	273
Name	OJ990527_24.9A20.C37.o1.gp	Method	AAT/GAP
Start	1	End	273
GI	12232_1.R1084	Score	535
Exons	1..273		
GI Descrip.	'3063444 3.0e-11 (AC003981) F22O13.5 [Arabidopsis thaliana]		

>gi_4973256_gb_AAD35005.1_AF144387_1 (AF144387) thioredoxin-like 1 [Arabidopsis thaliana]'

Seq. No.	15101	Seq. ID	OJ990527_24.9A20.C37
Gene No.	32091	Strand	+
Start	1	End	273
Name	OJ990527_24.9A20.C37.o1.tw	Method	TBLASTX:Wheat
Start	1	End	215
GI	none	Score	188
Exons	1..129, 2..160, 156..215, 163..210, 165..215		

Seq. No.	15101	Seq. ID	OJ990527_24.9A20.C37
Gene No.	32091	Strand	+
Start	1	End	273
Name	OJ990527_24.9A20.C37.o1.np	Method	AAT/NAP
Start	1	End	246
GI	3063444	Score	151
Exons	1..246		
GI Descrip.	(AC003981) F22O13.5 [Arabidopsis thaliana] gi|4973256|gb|AAD35005.1|AF144387_1 (AF144387) thioredoxin-like 1 [Arabidopsis thaliana]		

Seq. No.	15101	Seq. ID	OJ990527_24.9A20.C37
Gene No.	32091	Strand	+
Start	1	End	273
Name	OJ990527_24.9A20.C37.o1.gs	Method	GENSCAN
Start	9	End	166
GI	none	Score	.64
Exons	9..21, 45..166		

Seq. No.	15102	Seq. ID	OJ990527_24.9A20.C38
Gene No.	32092	Strand	+
Start	60	End	1962
Name	OJ990527_24.9A20.C38.o1.gs	Method	GENSCAN
Start	60	End	1962
GI	none	Score	.72
Exons	60..187, 322..392, 462..559, 634..784, 847..945, 1028..1091, 1186..1366, 1445..1535, 1733..1962		

Seq. No.	15103	Seq. ID	OJ990527_24.9A20.C39
Gene No.	32093	Strand	+
Start	977	End	6574
Name	OJ990527_24.9A20.C39.o1.np	Method	AAT/NAP
Start	977	End	4570
GI	728867	Score	51
Exons	977..1004, 2386..2579, 4545..4570		
GI Descrip.	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG PRECURSOR gi|99694|pir||S21961 proline-rich protein APG - Arabidopsis thaliana gi|22599|emb|CAA42925| (X60377) APG [Arabidopsis thaliana]		

Seq. No.	15103	Seq. ID	OJ990527_24.9A20.C39
Gene No.	32093	Strand	+
Start	977	End	6574
Name	OJ990527_24.9A20.C39.o1.gs	Method	GENSCAN
Start	2261	End	6574
GI	none	Score	.62

Exons	2261..2369, 2402..2715, 2932..2984, 3846..3925, 5423..5654, 6268..6574		
Seq. No.	15103	Seq. ID	OJ990527_24.9A20.C39
Gene No.	32094	Strand	-
Start	4421	End	6490
Name	OJ990527_24.9A20.C39.o2.np	Method	AAT/NAP
Start	4421	End	6490
GI	2062167	Score	82
Exons	4421..4503, 6325..6490		
GI Descrip.	(AC001645) Proline-rich protein APG isolog [Arabidopsis thaliana]		
Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32095	Strand	+
Start	792	End	2016
Name	OJ990527_24.9A20.C40.o1.gs	Method	GENSCAN
Start	792	End	2016
GI	none	Score	.71
Exons	792..918, 1496..2016		
Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32096	Strand	-
Start	3125	End	7107
Name	OJ990527_24.9A20.C40.o2.gs	Method	GENSCAN
Start	3125	End	7107
GI	none	Score	.65
Exons	3125..3336, 3455..3999, 4434..4560, 6810..7107		
Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o1.np	Method	AAT/NAP
Start	9126	End	17801
GI	6539553	Score	6263
Exons	9126..9836, 14611..17801		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		
Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o2.tw	Method	TBLASTX:Wheat
Start	9262	End	9738
GI	none	Score	331
Exons	9262..9648, 9263..9646, 9330..9647, 9657..9737, 9663..9737, 9667..9738		
Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o4.ts	Method	TBLASTX:Soybean
Start	9375	End	9749
GI	none	Score	104
Exons	9375..9599, 9618..9749		

Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o4.tm	Method	TBLASTX:Maize
Start	9594	End	14700
GI	none	Score	160
Exons	9594..9833, 9595..9822, 9627..9827, 14614..14700		

Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o4.gs	Method	GENSCAN
Start	13202	End	18440
GI	none	Score	.41
Exons	13202..13314, 14871..15721, 16951..17249, 17577..17710, 18037..18236, 18382..18440		

Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o2.ts	Method	TBLASTX:Soybean
Start	14596	End	14863
GI	none	Score	119
Exons	14596..14862, 14663..14863		

Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o3.tw	Method	TBLASTX:Wheat
Start	14716	End	15261
GI	none	Score	316
Exons	14716..14922, 14917..15261		

Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o3.tm	Method	TBLASTX:Maize
Start	14797	End	15262
GI	none	Score	65
Exons	14797..15261, 15164..15262		

Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o1.ts	Method	TBLASTX:Soybean
Start	14932	End	15396
GI	5509260	Score	58
Exons	14932..15396, 14951..15010, 15083..15301		
GI Descrip.	-		

Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o1.tc	Method	TBLASTX:Cress
Start	15043	End	15303
GI	none	Score	116

Exons	15043..15303, 15131..15301		
Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o1.tw	Method	TBLASTX:Wheat
Start	15316	End	16067
GI	none	Score	190
Exons	15316..15834, 15317..15475, 15336..15509, 15584..15835, 15626..15835, 15841..15939, 15843..15947, 15939..16067, 15942..16058, 15943..16062		
Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o3.ts	Method	TBLASTX:Soybean
Start	15721	End	16115
GI	none	Score	46
Exons	15721..15828, 15845..15889, 15847..15891, 15945..16100, 15945..16115, 15949..16107		
Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o5.tm	Method	TBLASTX:Maize
Start	15945	End	16337
GI	none	Score	226
Exons	15945..16337		
Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o5.tw	Method	TBLASTX:Wheat
Start	16068	End	16262
GI	none	Score	167
Exons	16068..16262, 16068..16259		
Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o1.tm	Method	TBLASTX:Maize
Start	16538	End	16853
GI	none	Score	363
Exons	16538..16699, 16539..16853, 16540..16833		
Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o2.tm	Method	TBLASTX:Maize
Start	17359	End	17672
GI	none	Score	288
Exons	17359..17664, 17360..17662, 17361..17672		
Seq. No.	15104	Seq. ID	OJ990527_24.9A20.C40
Gene No.	32097	Strand	-
Start	9126	End	18440
Name	OJ990527_24.9A20.C40.o4.tw	Method	TBLASTX:Wheat

Start	17420	End	17810
GI	none	Score	237
Exons	17420..17683, 17421..17807, 17422..17796, 17424..17810		

Seq. No.	15105	Seq. ID	OJ990527_24.9A20.C44
Gene No.	32098	Strand	+
Start	188	End	271
Name	OJ990527_24.9A20.C44.o1.gs	Method	GENSCAN
Start	188	End	271
GI	none	Score	.85
Exons	188..271		

Seq. No.	15106	Seq. ID	OJ990527_24.9A20.C45
Gene No.	32099	Strand	+
Start	34	End	273
Name	OJ990527_24.9A20.C45.o1.gp	Method	AAT/GAP
Start	34	End	273
GI	5003268	Score	415
Exons	34..273		

Seq. No.	15106	Seq. ID	OJ990527_24.9A20.C45
Gene No.	32100	Strand	+
Start	196	End	267
Name	OJ990527_24.9A20.C45.o1.gs	Method	GENSCAN
Start	196	End	267
GI	none	Score	.73
Exons	196..267		

Seq. No.	15107	Seq. ID	OJ990527_24.9A20.C46
Gene No.	32101	Strand	+
Start	153	End	568
Name	OJ990527_24.9A20.C46.o1.gp	Method	AAT/GAP
Start	153	End	568
GI	288_3.R1084	Score	786
Exons	153..568		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	15107	Seq. ID	OJ990527_24.9A20.C46
Gene No.	32102	Strand	-
Start	402	End	568
Name	OJ990527_24.9A20.C46.o1.tm	Method	TBLASTX:Maize
Start	385	End	567
GI	none	Score	240
Exons	385..567, 392..442, 396..566		

Seq. No.	15107	Seq. ID	OJ990527_24.9A20.C46
Gene No.	32102	Strand	-
Start	402	End	568
Name	OJ990527_24.9A20.C46.o1.gs	Method	GENSCAN
Start	402	End	542
GI	none	Score	.98
Exons	402..542		

Seq. No.	15107	Seq. ID	OJ990527_24.9A20.C46
Gene No.	32102	Strand	-

Start	402	End	568
Name	OJ990527_24.9A20.C46.o1.np	Method	AAT/NAP
Start	405	End	568
GI	1658315	Score	294
Exons	405..568		
GI Descrip.	(Y08988) osr40g3 [Oryza sativa]		

Seq. No.	15107	Seq. ID	OJ990527_24.9A20.C46
Gene No.	32102	Strand	-
Start	402	End	568
Name	OJ990527_24.9A20.C46.o1.tc	Method	TBLASTX:Cress
Start	408	End	567
GI	none	Score	115
Exons	408..566, 412..567		

Seq. No.	15107	Seq. ID	OJ990527_24.9A20.C46
Gene No.	32102	Strand	-
Start	402	End	568
Name	OJ990527_24.9A20.C46.o1.ts	Method	TBLASTX:Soybean
Start	408	End	567
GI	none	Score	133
Exons	408..566, 409..567		

Seq. No.	15107	Seq. ID	OJ990527_24.9A20.C46
Gene No.	32102	Strand	-
Start	402	End	568
Name	OJ990527_24.9A20.C46.o1.tw	Method	TBLASTX:Wheat
Start	408	End	567
GI	none	Score	222
Exons	408..566, 412..567		

Seq. No.	15108	Seq. ID	OJ990527_24.9A20.C47
Gene No.	32103	Strand	-
Start	1	End	319
Name	OJ990527_24.9A20.C47.o1.np	Method	AAT/NAP
Start	1	End	295
GI	1296955	Score	166
Exons	1..23, 122..295		
GI Descrip.	(X95402) duplicated domain structure protein [Oryza sativa]		

Seq. No.	15108	Seq. ID	OJ990527_24.9A20.C47
Gene No.	32103	Strand	-
Start	1	End	319
Name	OJ990527_24.9A20.C47.o1.tm	Method	TBLASTX:Maize
Start	3	End	319
GI	none	Score	41
Exons	3..47, 4..45, 98..289, 99..251, 119..247, 120..248, 149..268, 167..319, 187..318		

Seq. No.	15109	Seq. ID	OJ990527_24.9A20.C48
Gene No.	32104	Strand	-
Start	8	End	888
Name	OJ990527_24.9A20.C48.o1.gs	Method	GENSCAN
Start	8	End	888
GI	none	Score	.72
Exons	8..77, 614..888		

Seq. No.	15110	Seq. ID	OJ990527_24.9A20.C49
Gene No.	32105	Strand	-
Start	29	End	1171
Name	OJ990527_24.9A20.C49.o1.np	Method	AAT/NAP
Start	29	End	1171
GI	2262103	Score	615
Exons	29..350, 445..641, 731..1041, 1105..1171		
GI Descrip.	(AC002343) unknown protein [Arabidopsis thaliana] gi|5668642|emb|CAB51657.1| (AL109619) putative protein [Arabidopsis thaliana]		

Seq. No.	15110	Seq. ID	OJ990527_24.9A20.C49
Gene No.	32105	Strand	-
Start	29	End	1171
Name	OJ990527_24.9A20.C49.o1.tc	Method	TBLASTX:Cress
Start	44	End	620
GI	none	Score	87
Exons	44..211, 230..349, 447..617, 453..620		

Seq. No.	15110	Seq. ID	OJ990527_24.9A20.C49
Gene No.	32105	Strand	-
Start	29	End	1171
Name	OJ990527_24.9A20.C49.o3.tm	Method	TBLASTX:Maize
Start	44	End	351
GI	none	Score	66
Exons	44..199, 44..211, 90..212, 230..337, 231..311, 268..351		

Seq. No.	15110	Seq. ID	OJ990527_24.9A20.C49
Gene No.	32105	Strand	-
Start	29	End	1171
Name	OJ990527_24.9A20.C49.o1.gs	Method	GENSCAN
Start	45	End	1074
GI	none	Score	.91
Exons	45..347, 535..641, 731..1074		

Seq. No.	15110	Seq. ID	OJ990527_24.9A20.C49
Gene No.	32105	Strand	-
Start	29	End	1171
Name	OJ990527_24.9A20.C49.o2.tm	Method	TBLASTX:Maize
Start	441	End	766
GI	none	Score	99
Exons	441..572, 441..620, 442..576, 731..766		

Seq. No.	15110	Seq. ID	OJ990527_24.9A20.C49
Gene No.	32105	Strand	-
Start	29	End	1171
Name	OJ990527_24.9A20.C49.o1.tm	Method	TBLASTX:Maize
Start	794	End	1040
GI	none	Score	61
Exons	794..952, 848..949, 858..950, 992..1039, 993..1040		

Seq. No.	15110	Seq. ID	OJ990527_24.9A20.C49
Gene No.	32105	Strand	-
Start	29	End	1171
Name	OJ990527_24.9A20.C49.o2.tc	Method	TBLASTX:Cress
Start	798	End	1024
GI	none	Score	79

Exons	798..953, 800..970, 992..1024		
Seq. No.	15111	Seq. ID	OJ990527_24.9A20.C50
Gene No.	32106	Strand	+
Start	368	End	501
Name	OJ990527_24.9A20.C50.o1.gs	Method	GENSCAN
Start	368	End	501
GI	none	Score	.95
Exons	368..501		
Seq. No.	15112	Seq. ID	OJ990527_24.9A20.C51
Gene No.	32107	Strand	+
Start	349	End	482
Name	OJ990527_24.9A20.C51.o1.gs	Method	GENSCAN
Start	349	End	482
GI	none	Score	.7
Exons	349..482		
Seq. No.	15112	Seq. ID	OJ990527_24.9A20.C51
Gene No.	32108	Strand	-
Start	1	End	435
Name	OJ990527_24.9A20.C51.o1.np	Method	AAT/NAP
Start	1	End	429
GI	6223653	Score	238
Exons	1..124, 222..429		
GI Descrip.	(AC011698) transfactor-like [Arabidopsis thaliana]		
Seq. No.	15112	Seq. ID	OJ990527_24.9A20.C51
Gene No.	32108	Strand	-
Start	1	End	435
Name	OJ990527_24.9A20.C51.o1.ts	Method	TBLASTX:Soybean
Start	47	End	325
GI	none	Score	107
Exons	47..88, 78..116, 208..324, 218..325		
Seq. No.	15112	Seq. ID	OJ990527_24.9A20.C51
Gene No.	32108	Strand	-
Start	1	End	435
Name	OJ990527_24.9A20.C51.o1.tc	Method	TBLASTX:Cress
Start	48	End	435
GI	none	Score	40
Exons	48..83, 50..88, 82..117, 91..123, 208..435, 218..364		
Seq. No.	15113	Seq. ID	OJ990527_24.9A20.C53
Gene No.	32109	Strand	+
Start	1	End	508
Name	OJ990527_24.9A20.C53.o1.np	Method	AAT/NAP
Start	1	End	489
GI	1658313	Score	416
Exons	1..46, 262..489		
GI Descrip.	(Y08987) osr40g2 [Oryza sativa]		
Seq. No.	15113	Seq. ID	OJ990527_24.9A20.C53
Gene No.	32109	Strand	+
Start	1	End	508
Name	OJ990527_24.9A20.C53.o1.tm	Method	TBLASTX:Maize
Start	1	End	508

GI	none	Score	63
Exons	1..45, 4..48, 5..49, 254..319, 260..376, 261..497, 262..489, 440..508, 443..508		

Seq. No.	15113	Seq. ID	OJ990527_24.9A20.C53
Gene No.	32109	Strand	+
Start	1	End	508
Name	OJ990527_24.9A20.C53.o1.tc	Method	TBLASTX:Cress
Start	2	End	495
GI	none	Score	68
Exons	2..49, 262..495, 276..386, 426..488		

Seq. No.	15113	Seq. ID	OJ990527_24.9A20.C53
Gene No.	32109	Strand	+
Start	1	End	508
Name	OJ990527_24.9A20.C53.o1.ts	Method	TBLASTX:Soybean
Start	2	End	489
GI	none	Score	70
Exons	2..49, 261..389, 262..489		

Seq. No.	15113	Seq. ID	OJ990527_24.9A20.C53
Gene No.	32109	Strand	+
Start	1	End	508
Name	OJ990527_24.9A20.C53.o1.gs	Method	GENSCAN
Start	262	End	490
GI	none	Score	.93
Exons	262..490		

Seq. No.	15113	Seq. ID	OJ990527_24.9A20.C53
Gene No.	32109	Strand	+
Start	1	End	508
Name	OJ990527_24.9A20.C53.o1.tw	Method	TBLASTX:Wheat
Start	262	End	489
GI	none	Score	65
Exons	262..315, 266..319, 266..382, 267..362, 267..488, 268..489		

Seq. No.	15114	Seq. ID	OJ990527_24.9A20.C54
Gene No.	32110	Strand	+
Start	1	End	824
Name	OJ990527_24.9A20.C54.o1.np	Method	AAT/NAP
Start	1	End	824
GI	2462134	Score	327
Exons	1..824		
GI Descrip.	(Y13368) reverse transcriptase [Beta vulgaris]		

Seq. No.	15114	Seq. ID	OJ990527_24.9A20.C54
Gene No.	32110	Strand	+
Start	1	End	824
Name	OJ990527_24.9A20.C54.o1.tm	Method	TBLASTX:Maize
Start	18	End	467
GI	none	Score	70
Exons	18..113, 111..467, 116..313		

Seq. No.	15114	Seq. ID	OJ990527_24.9A20.C54
Gene No.	32110	Strand	+
Start	1	End	824
Name	OJ990527_24.9A20.C54.o1.gs	Method	GENSCAN

Start	69	End	756
GI	none	Score	.77
Exons	69..756		

Seq. No.	15114	Seq. ID	OJ990527_24.9A20.C54
Gene No.	32110	Strand	+
Start	1	End	824
Name	OJ990527_24.9A20.C54.o2.tm	Method	TBLASTX:Maize
Start	543	End	824
GI	none	Score	278
Exons	543..824, 644..814		

Seq. No.	15115	Seq. ID	OJ990517_25.9A03.C1
Gene No.	32111	Strand	+
Start	1713	End	4256
Name	OJ990517_25.9A03.C1.o1.gs	Method	GENSCAN
Start	1713	End	4256
GI	none	Score	.47
Exons	1713..1914, 3154..4256		

Seq. No.	15115	Seq. ID	OJ990517_25.9A03.C1
Gene No.	32111	Strand	+
Start	1713	End	4256
Name	OJ990517_25.9A03.C1.o1.np	Method	AAT/NAP
Start	3204	End	4238
GI	5020219	Score	355
Exons	3204..4238		
GI Descrip.	(AF149919) wax synthase [Simmondsia chinensis]		

Seq. No.	15115	Seq. ID	OJ990517_25.9A03.C1
Gene No.	32112	Strand	-
Start	5537	End	14168
Name	OJ990517_25.9A03.C1.o2.gs	Method	GENSCAN
Start	5537	End	12515
GI	none	Score	.58
Exons	5537..5723, 6366..6431, 6465..6553, 6677..6952, 7912..8116, 8792..8821, 9014..9344, 9829..10168, 10640..10846, 10893..11031, 12400..12515		

Seq. No.	15115	Seq. ID	OJ990517_25.9A03.C1
Gene No.	32112	Strand	-
Start	5537	End	14168
Name	OJ990517_25.9A03.C1.o1.gp	Method	AAT/GAP
Start	5802	End	6918
GI	19001_1.R1084	Score	1261
Exons	5802..6181, 6366..6431, 6677..6918		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	15115	Seq. ID	OJ990517_25.9A03.C1
Gene No.	32112	Strand	-
Start	5537	End	14168
Name	OJ990517_25.9A03.C1.o1.tm	Method	TBLASTX:Maize
Start	6109	End	8861
GI	none	Score	76
Exons	6109..6183, 6393..6434, 6393..6434, 6677..6949, 6692..6949, 6708..6965, 6771..6950, 8780..8860, 8781..8861		

Seq. No.	15115	Seq. ID	OJ990517_25.9A03.C1
Gene No.	32112	Strand	-
Start	5537	End	14168
Name	OJ990517_25.9A03.C1.o2.gp	Method	AAT/GAP
Start	6882	End	9474
GI	53496_1.R1084	Score	1206
Exons	6882..6952, 8792..8912, 9014..9474		
GI Descrip.	'3128208 2.0e-23 (AC004077) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	15115	Seq. ID	OJ990517_25.9A03.C1
Gene No.	32112	Strand	-
Start	5537	End	14168
Name	OJ990517_25.9A03.C1.o2.np	Method	AAT/NAP
Start	8792	End	9291
GI	3128208	Score	321
Exons	8792..8912, 9014..9291		
GI Descrip.	(AC004077) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	15115	Seq. ID	OJ990517_25.9A03.C1
Gene No.	32112	Strand	-
Start	5537	End	14168
Name	OJ990517_25.9A03.C1.o2.tm	Method	TBLASTX:Maize
Start	9055	End	9300
GI	none	Score	187
Exons	9055..9249, 9059..9250, 9214..9300, 9215..9286		

Seq. No.	15115	Seq. ID	OJ990517_25.9A03.C1
Gene No.	32112	Strand	-
Start	5537	End	14168
Name	OJ990517_25.9A03.C1.o4.np	Method	AAT/NAP
Start	11383	End	14168
GI	6006359	Score	62
Exons	11383..11412, 12368..12486, 13131..13230, 14126..14168		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32113	Strand	+
Start	184	End	4326
Name	OJ990517_25.9A03.C2.o1.gs	Method	GENSCAN
Start	184	End	4076
GI	none	Score	.79
Exons	184..312, 518..604, 1391..1669, 2344..2425, 3079..3272, 3762..4076		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32113	Strand	+
Start	184	End	4326
Name	OJ990517_25.9A03.C2.o1.gp	Method	AAT/GAP
Start	211	End	1584
GI	426364	Score	533
Exons	211..333, 1409..1584		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32113	Strand	+
Start	184	End	4326

Name	OJ990517_25.9A03.C2.o2.gp	Method	AAT/GAP
Start	1631	End	4326
GI	43582_1.R1084	Score	1645
Exons	1631..1669, 2344..2425, 3079..3272, 3762..4326		
GI Descrip.	'5042409/gb|AAD38248.1|AC006193_4 1.0e-09 (AC006193) Putative membrane related protein [Arabidopsis thaliana]'		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32114	Strand	+
Start	8894	End	19271
Name	OJ990517_25.9A03.C2.o3.gs	Method	GENSCAN
Start	8894	End	19271
GI	none	Score	.54
Exons	8894..9101, 10400..10579, 11330..11387, 11496..11603, 11844..12576, 12807..13136, 13616..13705, 14546..14945, 15123..15377, 15453..15707, 16837..16932, 16937..17041, 17730..17890, 17946..19271		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32114	Strand	+
Start	8894	End	19271
Name	OJ990517_25.9A03.C2.o3.gp	Method	AAT/GAP
Start	10994	End	11433
GI	4107129	Score	686
Exons	10994..11433		
GI Descrip.	1330273/dbj|D85055|RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32114	Strand	+
Start	8894	End	19271
Name	OJ990517_25.9A03.C2.o1.np	Method	AAT/NAP
Start	11947	End	15754
GI	6630696	Score	5860
Exons	11947..15754		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32115	Strand	+
Start	40707	End	46161
Name	OJ990517_25.9A03.C2.o3.np	Method	AAT/NAP
Start	40707	End	46161
GI	6498441	Score	7165
Exons	40707..41771, 42102..42565, 42629..43002, 43186..43320, 43494..44217, 44389..45786, 45880..46161		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32116	Strand	+
Start	61545	End	62300
Name	OJ990517_25.9A03.C2.o10.gs	Method	GENSCAN
Start	61545	End	62300
GI	none	Score	.99

Exons	61545..62300		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32117	Strand	+
Start	63702	End	89672
Name	OJ990517_25.9A03.C2.o11.gs	Method	GENSCAN
Start	63702	End	89672
GI	none	Score	.64
Exons	63702..63705, 64093..64274, 64481..64667, 65258..65502, 65602..65734, 65830..65901, 66241..66285, 66760..66861, 66956..67124, 67249..67347, 67783..67932, 69625..69664, 70127..70184, 71949..72037, 72792..72890, 72981..73096, 73180..73298, 76055..76078, 76563..76633, 77210..77312, 77684..77823, 78270..78373, 80451..80563, 80581..80693, 84568..84664, 85069..85152, 87901..88090, 88604..88666, 89481..89672		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32117	Strand	+
Start	63702	End	89672
Name	OJ990517_25.9A03.C2.o5.gp	Method	AAT/GAP
Start	71984	End	76666
GI	none	Score	788
Exons	71984..72037, 72792..72890, 72981..73096, 73180..73298, 76563..76666		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32117	Strand	+
Start	63702	End	89672
Name	OJ990517_25.9A03.C2.o6.gp	Method	AAT/GAP
Start	79858	End	84588
GI	none	Score	1321
Exons	79858..80043, 82138..82327, 83199..83298, 83666..83834, 84403..84485, 84568..84588		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32117	Strand	+
Start	63702	End	89672
Name	OJ990517_25.9A03.C2.o7.gp	Method	AAT/GAP
Start	84555	End	85481
GI	37939_1.R1084	Score	1194
Exons	84555..84644, 84881..85481		
GI Descrip.	'2674203/gb|AAB88706.1| 8.0e-32 (AF036328) CLP protease regulatory subunit CLPX [Arabidopsis thaliana]'		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32118	Strand	-
Start	4653	End	7021
Name	OJ990517_25.9A03.C2.o2.gs	Method	GENSCAN
Start	4653	End	7021
GI	none	Score	.76
Exons	4653..4781, 6953..7021		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32119	Strand	-
Start	46787	End	66743
Name	OJ990517_25.9A03.C2.o7.gs	Method	GENSCAN

Start	46787	End	50351
GI	none	Score	.71
Exons	46787..48647, 49466..49667, 49801..49883, 50305..50351		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32119	Strand	-
Start	46787	End	66743
Name	OJ990517_25.9A03.C2.o4.np	Method	AAT/NAP
Start	46790	End	66743
GI	6907089	Score	2498
Exons	46790..48647, 49193..49233, 49296..49372, 54863..55005, 65427..65499, 66722..66743		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32119	Strand	-
Start	46787	End	66743
Name	OJ990517_25.9A03.C2.o9.gs	Method	GENSCAN
Start	57333	End	58792
GI	none	Score	.82
Exons	57333..57704, 57710..57956, 58389..58792		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o2.tm	Method	TBLASTX:Maize
Start	184	End	4025
GI	none	Score	198
Exons	184..330, 184..330, 243..332, 284..334, 1408..1662, 1412..1669, 1412..1687, 2328..2423, 2335..2424, 2341..2424, 2343..2426, 3066..3272, 3079..3270, 3080..3271, 3760..3882, 3789..4025, 3884..4024		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o15.tw	Method	TBLASTX:Wheat
Start	1541	End	3134
GI	none	Score	198
Exons	1541..1687, 1544..1669, 1546..1671, 1548..1685, 2328..2423, 2341..2424, 2343..2423, 3065..3133, 3066..3134		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o8.tw	Method	TBLASTX:Wheat
Start	11842	End	12238
GI	none	Score	124
Exons	11842..11976, 11859..12011, 12006..12236, 12016..12237, 12056..12238		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o12.tm	Method	TBLASTX:Maize
Start	11997	End	12299
GI	none	Score	275

Exons	11997..12299, 12013..12297		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o3.tm	Method	TBLASTX:Maize
Start	12802	End	13166
GI	none	Score	281
Exons	12802..13104, 12803..13111, 12807..13127, 12807..13106, 12824..13126, 13125..13166		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o14.tm	Method	TBLASTX:Maize
Start	13313	End	45651
GI	none	Score	252
Exons	13313..13705, 13684..13746, 45493..45651		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o13.tw	Method	TBLASTX:Wheat
Start	13390	End	13582
GI	none	Score	263
Exons	13390..13581, 13391..13582, 13391..13582		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o7.ts	Method	TBLASTX:Soybean
Start	13535	End	13931
GI	none	Score	145
Exons	13535..13705, 13537..13695, 13708..13755, 13791..13931		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o1.tw	Method	TBLASTX:Wheat
Start	13583	End	14335
GI	none	Score	186
Exons	13583..13705, 13591..13710, 13591..13704, 13592..13705, 13704..13772, 13705..13782, 13786..14046, 13787..14050, 13788..14114, 13804..14115, 13814..14071, 13821..14114, 14112..14330, 14113..14331, 14114..14335, 14120..14335		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o1.ts	Method	TBLASTX:Soybean
Start	14255	End	14719
GI	5509260	Score	166
Exons	14255..14476, 14359..14478, 14537..14719		
GI Descrip.	-		
Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-

Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o4.tc	Method	TBLASTX:Cress
Start	14348	End	14608
GI	none	Score	244
Exons	14348..14608, 14356..14520		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o10.tm	Method	TBLASTX:Maize
Start	14390	End	14888
GI	none	Score	309
Exons	14390..14854, 14412..14468, 14543..14605, 14641..14751, 14832..14888		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o6.tw	Method	TBLASTX:Wheat
Start	14390	End	14935
GI	none	Score	272
Exons	14390..14734, 14407..14568, 14540..14605, 14729..14935, 14803..14925		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o4.ts	Method	TBLASTX:Soybean
Start	14788	End	15136
GI	none	Score	137
Exons	14788..14928, 14789..14947, 14948..15136, 14965..15135		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o9.tm	Method	TBLASTX:Maize
Start	14939	End	15286
GI	none	Score	314
Exons	14939..15286, 14963..15277, 14974..15285		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o8.ts	Method	TBLASTX:Soybean
Start	15137	End	15505
GI	none	Score	102
Exons	15137..15262, 15281..15505		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o2.tw	Method	TBLASTX:Wheat
Start	15143	End	15618
GI	none	Score	113
Exons	15143..15217, 15144..15212, 15148..15231, 15148..15216, 15232..15618, 15233..15616		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o14.tw	Method	TBLASTX:Wheat
Start	15893	End	16272
GI	none	Score	58
Exons	15893..15964, 15894..15965, 15943..16035, 15966..16037, 15968..16048, 16036..16110, 16037..16114, 16040..16111, 16141..16272, 16142..16231		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o3.tc	Method	TBLASTX:Cress
Start	18318	End	19141
GI	none	Score	61
Exons	18318..18410, 18318..18404, 18318..18410, 18405..18467, 18405..18512, 18423..18527, 18426..18506, 18432..18530, 18513..18599, 18531..18911, 18539..18892, 18540..18704, 18561..18824, 18630..18992, 18644..18916, 18696..18917, 18732..19121, 18807..19019, 18831..19016, 18903..19127, 19079..19141		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o15.tm	Method	TBLASTX:Maize
Start	18321	End	19268
GI	none	Score	62
Exons	18321..18419, 18387..18518, 18429..18530, 18513..18641, 18540..18581, 18840..19268, 18846..19268, 18849..19130, 18855..19214		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o2.ts	Method	TBLASTX:Soybean
Start	18375	End	54224
GI	none	Score	74
Exons	18375..18518, 18405..18527, 18420..18518, 18519..18746, 18534..18956, 18567..19022, 18575..19045, 18777..19268, 53613..53717, 53760..53918, 54138..54224		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o1.tm	Method	TBLASTX:Maize
Start	18642	End	54917
GI	none	Score	88
Exons	18642..18836, 53577..54146, 53620..54039, 53790..54125, 53835..54221, 54030..54161, 54030..54413, 54093..54398, 54106..54375, 54135..54518, 54348..54662, 54387..54638, 54681..54905, 54687..54917, 54747..54914		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801

Name	OJ990517_25.9A03.C2.o5.tw	Method	TBLASTX:Wheat
Start	31017	End	42472
GI	none	Score	408
Exons	31017..31142, 41986..42159, 41987..42472, 42181..42441		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o11.tw	Method	TBLASTX:Wheat
Start	40859	End	41248
GI	none	Score	54
Exons	40859..40903, 40910..41008, 40927..41007, 40975..41214, 40991..41248		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o16.tm	Method	TBLASTX:Maize
Start	40898	End	41146
GI	none	Score	196
Exons	40898..41146, 40900..41145		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o3.tw	Method	TBLASTX:Wheat
Start	42636	End	43099
GI	none	Score	195
Exons	42636..43079, 42637..43092, 42638..43099, 42638..43093		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o9.ts	Method	TBLASTX:Soybean
Start	42677	End	43042
GI	none	Score	117
Exons	42677..42901, 42908..43042		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o5.tm	Method	TBLASTX:Maize
Start	42767	End	43123
GI	none	Score	395
Exons	42767..43123, 42802..43113, 43007..43123		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o7.tm	Method	TBLASTX:Maize
Start	43150	End	43533
GI	none	Score	285
Exons	43150..43434, 43151..43435, 43423..43533		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801

Name	OJ990517_25.9A03.C2.o4.tw	Method	TBLASTX:Wheat
Start	43207	End	43626
GI	none	Score	281
Exons	43207..43437, 43208..43438, 43420..43626, 43446..43601		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o3.ts	Method	TBLASTX:Soybean
Start	43286	End	43656
GI	none	Score	154
Exons	43286..43429, 43303..43428, 43426..43656		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o9.tw	Method	TBLASTX:Wheat
Start	44089	End	44523
GI	none	Score	240
Exons	44089..44340, 44154..44339, 44374..44523, 44385..44522		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o6.ts	Method	TBLASTX:Soybean
Start	44212	End	44778
GI	5666795	Score	67
Exons	44212..44310, 44386..44523, 44578..44778		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o16.tw	Method	TBLASTX:Wheat
Start	44526	End	44838
GI	none	Score	191
Exons	44526..44702, 44578..44838		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o7.tw	Method	TBLASTX:Wheat
Start	45034	End	45425
GI	none	Score	362
Exons	45034..45423, 45057..45425		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o6.tm	Method	TBLASTX:Maize
Start	45040	End	45374
GI	none	Score	366
Exons	45040..45363, 45060..45371, 45225..45374		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801

Name	OJ990517_25.9A03.C2.o12.tw	Method	TBLASTX:Wheat
Start	45544	End	46152
GI	none	Score	266
Exons	45544..45834, 45576..45833, 46026..46148, 46027..46152		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o1.tc	Method	TBLASTX:Cress
Start	53613	End	55019
GI	none	Score	79
Exons	53613..53708, 53712..53819, 53826..53987, 53826..54263, 53835..54140, 53836..54165, 54054..54131, 54106..54378, 54123..54398, 54138..54599, 54441..54662, 54441..54662, 54669..54908, 54681..54740, 54747..55019, 54747..54917		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o10.tw	Method	TBLASTX:Wheat
Start	53691	End	54908
GI	none	Score	77
Exons	53691..53984, 53691..54161, 53845..54120, 54078..54455, 54082..54393, 54387..54680, 54690..54908		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o13.tm	Method	TBLASTX:Maize
Start	61510	End	61832
GI	none	Score	88
Exons	61510..61671, 61517..61624, 61518..61751, 61519..61668, 61530..61751, 61751..61831, 61755..61832		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o2.tc	Method	TBLASTX:Cress
Start	65665	End	67276
GI	none	Score	88
Exons	65665..65733, 65667..65759, 65820..65867, 66758..66844, 66759..66854, 66944..67066, 66955..67110, 66984..67109, 67226..67276, 67228..67275		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o11.tm	Method	TBLASTX:Maize
Start	67008	End	67900
GI	none	Score	112
Exons	67008..67124, 67008..67118, 67009..67128, 67009..67125, 67010..67132, 67237..67329, 67237..67347, 67247..67354, 67772..67897, 67781..67900		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801

Name	OJ990517_25.9A03.C2.o4.tm	Method	TBLASTX:Maize
Start	70127	End	73296
GI	none	Score	72
Exons	70127..70183, 71947..72045, 71948..72037, 71950..72039, 72790..72900, 72792..72899, 72793..72900, 72963..73109, 72983..73108, 73171..73296, 73177..73278, 73190..73288, 73267..73296		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o5.ts	Method	TBLASTX:Soybean
Start	77678	End	78322
GI	none	Score	141
Exons	77678..77809, 77683..77823, 78027..78188, 78041..78187, 78251..78322		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o8.tm	Method	TBLASTX:Maize
Start	78011	End	84647
GI	none	Score	71
Exons	78011..78094, 78030..78188, 78030..78191, 78154..78189, 78249..78374, 78269..78364, 79862..79999, 79870..80031, 79879..80049, 79881..80051, 82129..82329, 82136..82330, 82137..82328, 83186..83299, 83197..83298, 83198..83326, 83663..83830, 83664..83816, 83665..83835, 83666..83836, 84402..84488, 84405..84491, 84567..84647, 84568..84645, 84576..84647		

Seq. No.	15116	Seq. ID	OJ990517_25.9A03.C2
Gene No.	32120	Strand	-
Start	85686	End	85801
Name	OJ990517_25.9A03.C2.o5.np	Method	AAT/NAP
Start	85686	End	85801
GI	6815099	Score	78
Exons	85686..85801		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	15117	Seq. ID	OJ990517_25.9A03.C3
Gene No.	32121	Strand	+
Start	1989	End	15077
Name	OJ990517_25.9A03.C3.o1.np	Method	AAT/NAP
Start	1989	End	13189
GI	4455240	Score	821
Exons	1989..2024, 4800..4900, 5966..6064, 6193..6236, 7039..7075, 7134..7282, 7971..8046, 8214..8342, 8695..8793, 9479..9637, 9729..9835, 10678..10770, 11004..11115, 11226..11254, 12453..12625, 13101..13189		
GI Descrip.	(AL035523) putative protein [Arabidopsis thaliana]		

Seq. No.	15117	Seq. ID	OJ990517_25.9A03.C3
Gene No.	32121	Strand	+
Start	1989	End	15077
Name	OJ990517_25.9A03.C3.o3.gs	Method	GENSCAN
Start	6346	End	15077

GI	none	Score	.67
Exons	6346..6391, 6979..7071, 8690..8793, 9479..9676, 9729..9824, 10009..10135, 11004..11115, 11226..11296, 11770..12206, 12935..13032, 13572..13647, 14571..14676, 14734..14856, 14998..15077		

Seq. No.	15117	Seq. ID	OJ990517_25.9A03.C3
Gene No.	32122	Strand	-
Start	88	End	1318
Name	OJ990517_25.9A03.C3.o1.gs	Method	GENSCAN
Start	88	End	1318
GI	none	Score	.7
Exons	88..207, 1268..1318		

Seq. No.	15117	Seq. ID	OJ990517_25.9A03.C3
Gene No.	32123	Strand	
Start	6037	End	8939
Name	OJ990517_25.9A03.C3.o2.tm	Method	TBLASTX:Maize
Start	6037	End	8939
GI	none	Score	51
Exons	6037..6063, 6192..6230, 6301..6366, 6310..6366, 6975..7070, 6977..7072, 6978..7070, 6979..7074, 6994..7074, 7182..7283, 7192..7269, 7199..7282, 7966..8031, 7966..8046, 7968..8042, 8220..8330, 8232..8342, 8234..8332, 8683..8793, 8689..8793, 8879..8935, 8880..8939, 8883..8939		

Seq. No.	15117	Seq. ID	OJ990517_25.9A03.C3
Gene No.	32124	Strand	
Start	9473	End	11120
Name	OJ990517_25.9A03.C3.o1.tm	Method	TBLASTX:Maize
Start	9473	End	11120
GI	none	Score	189
Exons	9473..9667, 9478..9570, 9482..9622, 9726..9824, 9740..9841, 9741..9830, 10719..10772, 10997..11116, 11003..11116, 11004..11120, 11034..11120		

Seq. No.	15118	Seq. ID	OJ990517_24.9A01.C1
Gene No.	32125	Strand	+
Start	1	End	5431
Name	OJ990517_24.9A01.C1.o1.np	Method	AAT/NAP
Start	1	End	5425
GI	4539369	Score	197
Exons	1..19, 3058..3233, 3802..3902, 4589..5085, 5226..5425		
GI Descrip.	(AL049525) putative protein [Arabidopsis thaliana]		

Seq. No.	15118	Seq. ID	OJ990517_24.9A01.C1
Gene No.	32125	Strand	+
Start	1	End	5431
Name	OJ990517_24.9A01.C1.o1.tm	Method	TBLASTX:Maize
Start	2989	End	5093
GI	none	Score	115
Exons	2989..3135, 3053..3118, 3056..3223, 3109..3228, 3129..3224, 3157..3234, 3776..3823, 3854..3889, 4607..4744, 4806..4907, 4806..4907, 4914..5093		

Seq. No.	15118	Seq. ID	OJ990517_24.9A01.C1
Gene No.	32125	Strand	+

Start	1	End	5431
Name	OJ990517_24.9A01.C1.o1.ts	Method	TBLASTX:Soybean
Start	2989	End	3233
GI	none	Score	204
Exons	2989..3231, 3066..3233		

Seq. No.	15118	Seq. ID	OJ990517_24.9A01.C1
Gene No.	32125	Strand	+
Start	1	End	5431
Name	OJ990517_24.9A01.C1.o1.tc	Method	TBLASTX:Cress
Start	3022	End	5018
GI	none	Score	192
Exons	3022..3228, 3764..3844, 3854..3889, 4818..5018		

Seq. No.	15118	Seq. ID	OJ990517_24.9A01.C1
Gene No.	32125	Strand	+
Start	1	End	5431
Name	OJ990517_24.9A01.C1.o2.gs	Method	GENSCAN
Start	4587	End	5431
GI	none	Score	.9
Exons	4587..4646, 4821..5085, 5226..5431		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32126	Strand	+
Start	1	End	969
Name	OJ990517_24.9A01.C2.o1.np	Method	AAT/NAP
Start	1	End	969
GI	4972119	Score	1205
Exons	1..23, 67..466, 607..969		
GI Descrip.	(AL078579) putative zinc finger protein [Arabidopsis thaliana]		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32126	Strand	+
Start	1	End	969
Name	OJ990517_24.9A01.C2.o1.gs	Method	GENSCAN
Start	80	End	969
GI	none	Score	.96
Exons	80..466, 607..969		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32127	Strand	+
Start	895	End	1222
Name	OJ990517_24.9A01.C2.o1.gp	Method	AAT/GAP
Start	895	End	1222
GI	286847	Score	601
Exons	895..1222		
GI Descrip.	3264610/gb|AF061511|AF061511 1.0e-10 Zea mays seven in absentia homolog mRNA, partial cds		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32128	Strand	+
Start	1923	End	2406
Name	OJ990517_24.9A01.C2.o2.gp	Method	AAT/GAP
Start	1923	End	2406
GI	uC-osflcyp157c05a1	Score	940
Exons	1923..2406		
GI Descrip.	'4558547/gb|AAD22640.1|AC007138_4 2.0e-13 (AC007138)		

hypothetical protein [Arabidopsis thaliana]'

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32129	Strand	+
Start	6092	End	6258
Name	OJ990517_24.9A01.C2.o3.gs	Method	GENSCAN
Start	6092	End	6258
GI	none	Score	.84
Exons	6092..6258		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o1.tm	Method	TBLASTX:Maize
Start	58	End	471
GI	none	Score	717
Exons	58..471, 59..469, 70..471		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o1.ts	Method	TBLASTX:Soybean
Start	74	End	975
GI	none	Score	690
Exons	74..469, 76..468, 605..754, 605..754, 607..975, 607..948, 645..965		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o1.tc	Method	TBLASTX:Cress
Start	127	End	412
GI	none	Score	468
Exons	127..411, 128..409, 128..412		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o2.tc	Method	TBLASTX:Cress
Start	593	End	909
GI	none	Score	62
Exons	593..769, 605..727, 613..876, 645..875, 877..909		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o2.tm	Method	TBLASTX:Maize
Start	605	End	1087
GI	none	Score	575
Exons	605..760, 607..936, 645..935, 919..990, 1061..1087		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o2.tw	Method	TBLASTX:Wheat
Start	2221	End	2394
GI	none	Score	190

Exons	2221..2394		
Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o3.tm	Method	TBLASTX:Maize
Start	2221	End	2445
GI	none	Score	225
Exons	2221..2445		
Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o2.gs	Method	GENSCAN
Start	2224	End	4845
GI	none	Score	.9
Exons	2224..2451, 2569..2787, 2936..3220, 3314..3403, 3646..3827, 3963..4845		
Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o2.np	Method	AAT/NAP
Start	2227	End	4845
GI	6650526	Score	1218
Exons	2227..2448, 2569..2787, 2936..3220, 3314..3403, 3646..3827, 3963..4845		
GI Descrip.	(AF101045) putative transcription factor X1 [Oryza sativa subsp. japonica]		
Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o5.tc	Method	TBLASTX:Cress
Start	2227	End	2451
GI	none	Score	194
Exons	2227..2451		
Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o5.tm	Method	TBLASTX:Maize
Start	2575	End	2830
GI	none	Score	62
Exons	2575..2673, 2579..2674, 2627..2830, 2671..2787		
Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o1.tw	Method	TBLASTX:Wheat
Start	2719	End	3355
GI	none	Score	54
Exons	2719..2787, 2939..3007, 3071..3223, 3314..3355		
Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845

Name	OJ990517_24.9A01.C2.o4.tc	Method	TBLASTX:Cress
Start	2728	End	4224
GI	none	Score	57
Exons	2728..2787, 2729..2788, 3101..3235, 3646..3846, 3958..4224		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o4.tm	Method	TBLASTX:Maize
Start	2975	End	3406
GI	none	Score	99
Exons	2975..3007, 3092..3223, 3302..3406		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o3.gp	Method	AAT/GAP
Start	3095	End	4082
GI	uC-osflcyp157c05b1	Score	968
Exons	3095..3220, 3314..3403, 3646..3827, 3963..4082		
GI Descrip.	'2149018/gb|U70541|OSU70541 5.0e-25 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds'		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o2.ts	Method	TBLASTX:Soybean
Start	4447	End	4836
GI	none	Score	178
Exons	4447..4560, 4582..4647, 4639..4836		

Seq. No.	15119	Seq. ID	OJ990517_24.9A01.C2
Gene No.	32130	Strand	-
Start	2224	End	4845
Name	OJ990517_24.9A01.C2.o3.tc	Method	TBLASTX:Cress
Start	4465	End	4845
GI	none	Score	70
Exons	4465..4659, 4646..4726, 4651..4845, 4652..4729		

Seq. No.	15120	Seq. ID	OJ990517_24.9A01.C3
Gene No.	32131	Strand	+
Start	3880	End	4245
Name	OJ990517_24.9A01.C3.o1.np	Method	AAT/NAP
Start	3880	End	4245
GI	6539585	Score	169
Exons	3880..4053, 4166..4245		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	15120	Seq. ID	OJ990517_24.9A01.C3
Gene No.	32132	Strand	-
Start	1081	End	3627
Name	OJ990517_24.9A01.C3.o1.gs	Method	GENSCAN
Start	1081	End	3627
GI	none	Score	.6
Exons	1081..1277, 1531..1621, 2420..2669, 3569..3627		

Seq. No.	15121	Seq. ID	OJ990517_24.9A01.C4
Gene No.	32133	Strand	+
Start	54	End	3924
Name	OJ990517_24.9A01.C4.o1.gs	Method	GENSCAN
Start	54	End	3924
GI	none	Score	.45
Exons	54..150, 346..1193, 1359..1451, 1487..1654, 1797..1893, 1917..2161, 2283..2801, 3048..3329, 3391..3924		

Seq. No.	15121	Seq. ID	OJ990517_24.9A01.C4
Gene No.	32133	Strand	+
Start	54	End	3924
Name	OJ990517_24.9A01.C4.o1.np	Method	AAT/NAP
Start	414	End	3894
GI	5803259	Score	1795
Exons	414..1694, 1770..2804, 2939..3116, 3221..3894		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32134	Strand	+
Start	6586	End	7127
Name	OJ990517_24.9A01.C5.o2.np	Method	AAT/NAP
Start	6586	End	7127
GI	6539585	Score	206
Exons	6586..6755, 7052..7127		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o1.gs	Method	GENSCAN
Start	438	End	10896
GI	none	Score	.4
Exons	438..832, 866..1140, 1149..1279, 1379..1567, 1943..2134, 2219..2770, 2898..3032, 3347..3474, 3524..3947, 4026..4118, 4143..4193, 4233..4944, 4953..5425, 5741..5942, 6838..6919, 7026..7112, 8861..9045, 10880..10896		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o1.np	Method	AAT/NAP
Start	441	End	5848
GI	6498441	Score	4836
Exons	441..722, 816..2218, 2405..3078, 3253..3389, 3574..3947, 4011..4461, 4789..5848		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o5.tw	Method	TBLASTX:Wheat
Start	450	End	1059
GI	none	Score	81
Exons	450..575, 606..680, 762..1058, 802..879, 1009..1059		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o6.tw	Method	TBLASTX:Wheat
Start	1066	End	1433
GI	none	Score	44
Exons	1066..1134, 1074..1133, 1145..1432, 1188..1433		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o2.tm	Method	TBLASTX:Maize
Start	1247	End	1561
GI	none	Score	188
Exons	1247..1561, 1257..1478		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o4.tw	Method	TBLASTX:Wheat
Start	1952	End	2402
GI	none	Score	167
Exons	1952..2224, 2013..2261, 2291..2401, 2292..2402		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o1.ts	Method	TBLASTX:Soybean
Start	1985	End	2410
GI	none	Score	90
Exons	1985..2221, 2297..2410		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o8.tw	Method	TBLASTX:Wheat
Start	2405	End	2608
GI	none	Score	129
Exons	2405..2608, 2412..2603		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o3.tw	Method	TBLASTX:Wheat
Start	2966	End	3367
GI	none	Score	241
Exons	2966..3022, 2967..3362, 3065..3367		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o3.tm	Method	TBLASTX:Maize
Start	3068	End	3425
GI	none	Score	147
Exons	3068..3424, 3174..3425		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o2.ts	Method	TBLASTX:Soybean
Start	3155	End	3391
GI	none	Score	65
Exons	3155..3391, 3177..3272		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o1.tm	Method	TBLASTX:Maize
Start	3452	End	3809
GI	none	Score	155
Exons	3452..3490, 3489..3809, 3499..3774		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o1.tw	Method	TBLASTX:Wheat
Start	3498	End	3939
GI	none	Score	339
Exons	3498..3938, 3499..3939		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o2.tw	Method	TBLASTX:Wheat
Start	3939	End	4578
GI	none	Score	155
Exons	3939..4070, 4047..4577, 4066..4383, 4441..4578		

Seq. No.	15122	Seq. ID	OJ990517_24.9A01.C5
Gene No.	32135	Strand	-
Start	438	End	10896
Name	OJ990517_24.9A01.C5.o7.tw	Method	TBLASTX:Wheat
Start	5315	End	5661
GI	none	Score	108
Exons	5315..5575, 5346..5576, 5571..5657, 5572..5661		

Seq. No.	15123	Seq. ID	OJ990517_24.9A01.C7
Gene No.	32136	Strand	+
Start	308	End	1336
Name	OJ990517_24.9A01.C7.o1.gs	Method	GENSCAN
Start	308	End	1336
GI	none	Score	.8
Exons	308..435, 453..554, 698..1336		

Seq. No.	15123	Seq. ID	OJ990517_24.9A01.C7
Gene No.	32136	Strand	+
Start	308	End	1336
Name	OJ990517_24.9A01.C7.o1.ts	Method	TBLASTX:Soybean
Start	501	End	1249
GI	none	Score	121
Exons	501..644, 740..868, 772..852, 931..1032, 932..1075, 1070..1249, 1096..1248		

Seq. No.	15123	Seq. ID	OJ990517_24.9A01.C7
Gene No.	32136	Strand	+
Start	308	End	1336
Name	OJ990517_24.9A01.C7.o1.tm	Method	TBLASTX:Maize
Start	1123	End	1252
GI	none	Score	236
Exons	1123..1248, 1124..1252		

Seq. No.	15124	Seq. ID	OJ990517_24.9A01.C8
Gene No.	32137	Strand	-
Start	76	End	606
Name	OJ990517_24.9A01.C8.o1.gs	Method	GENSCAN
Start	76	End	606
GI	none	Score	.99
Exons	76..606		

Seq. No.	15124	Seq. ID	OJ990517_24.9A01.C8
Gene No.	32138	Strand	-
Start	1020	End	1350
Name	OJ990517_24.9A01.C8.o2.gs	Method	GENSCAN
Start	1020	End	1350
GI	none	Score	.52
Exons	1020..1109, 1215..1275, 1280..1350		

Seq. No.	15125	Seq. ID	OJ990517_24.9A01.C9
Gene No.	32139	Strand	-
Start	264	End	654
Name	OJ990517_24.9A01.C9.o1.tm	Method	TBLASTX:Maize
Start	1	End	654
GI	none	Score	62
Exons	1..42, 1..39, 10..534, 19..600, 35..604, 39..608, 186..605, 590..634, 595..654		

Seq. No.	15125	Seq. ID	OJ990517_24.9A01.C9
Gene No.	32139	Strand	-
Start	264	End	654
Name	OJ990517_24.9A01.C9.o1.ts	Method	TBLASTX:Soybean
Start	36	End	583
GI	none	Score	375
Exons	36..416, 40..426, 423..455, 488..583		

Seq. No.	15125	Seq. ID	OJ990517_24.9A01.C9
Gene No.	32139	Strand	-
Start	264	End	654
Name	OJ990517_24.9A01.C9.o1.tc	Method	TBLASTX:Cress
Start	39	End	606
GI	none	Score	317
Exons	39..467, 40..468, 296..469, 490..606, 513..605, 571..606		

Seq. No.	15125	Seq. ID	OJ990517_24.9A01.C9
Gene No.	32139	Strand	-
Start	264	End	654
Name	OJ990517_24.9A01.C9.o1.gs	Method	GENSCAN
Start	264	End	455
GI	none	Score	.59
Exons	264..455		

Seq. No.	15126	Seq. ID	OJ990517_24.9A01.C12
Gene No.	32140	Strand	+
Start	165	End	10568
Name	OJ990517_24.9A01.C12.o1.gs	Method	GENSCAN
Start	165	End	10568
GI	none	Score	.63
Exons	165..262, 337..487, 550..648, 731..794, 889..1069, 1148..1238, 1436..1542, 3580..3717, 3939..4037, 6255..6363, 6396..6709, 6926..6978, 7840..7919, 9417..9648, 10262..10568		

Seq. No.	15126	Seq. ID	OJ990517_24.9A01.C12
Gene No.	32140	Strand	+
Start	165	End	10568
Name	OJ990517_24.9A01.C12.o2.np	Method	AAT/NAP
Start	4971	End	8564
GI	728867	Score	51
Exons	4971..4998, 6380..6573, 8539..8564		
GI Descrip.	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG PRECURSOR gi|99694|pir||S21961 proline-rich protein APG - Arabidopsis thaliana gi|22599|emb|CAA42925| (X60377) APG [Arabidopsis thaliana]		

Seq. No.	15126	Seq. ID	OJ990517_24.9A01.C12
Gene No.	32141	Strand	-
Start	1530	End	4855
Name	OJ990517_24.9A01.C12.o1.np	Method	AAT/NAP
Start	1530	End	4855
GI	728867	Score	247
Exons	1530..1616, 3606..4173, 4795..4855		
GI Descrip.	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG PRECURSOR gi|99694|pir||S21961 proline-rich protein APG - Arabidopsis thaliana gi|22599|emb|CAA42925| (X60377) APG [Arabidopsis thaliana]		

Seq. No.	15126	Seq. ID	OJ990517_24.9A01.C12
Gene No.	32142	Strand	-
Start	8415	End	10484
Name	OJ990517_24.9A01.C12.o3.np	Method	AAT/NAP
Start	8415	End	10484
GI	2062167	Score	82
Exons	8415..8497, 10319..10484		
GI Descrip.	(AC001645) Proline-rich protein APG isolog [Arabidopsis thaliana]		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32143	Strand	+
Start	77	End	334
Name	OJ990517_24.9A01.C14.o1.gs	Method	GENSCAN
Start	77	End	334
GI	none	Score	.66
Exons	77..334		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32144	Strand	-
Start	1443	End	5425
Name	OJ990517_24.9A01.C14.o2.gs	Method	GENSCAN
Start	1443	End	5425

GI	none	Score	.65
Exons	1443..1654, 1773..2317, 2752..2878, 5128..5425		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o1.np	Method	AAT/NAP
Start	7444	End	15290
GI	6539553	Score	4877
Exons	7444..8154, 12929..15290		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o2.tw	Method	TBLASTX:Wheat
Start	7580	End	8056
GI	none	Score	331
Exons	7580..7966, 7581..7964, 7648..7965, 7981..8055, 7985..8056		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o4.ts	Method	TBLASTX:Soybean
Start	7693	End	8067
GI	none	Score	104
Exons	7693..7917, 7936..8067		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o4.gs	Method	GENSCAN
Start	7732	End	9513
GI	none	Score	.86
Exons	7732..8210, 8928..9049, 9112..9285, 9440..9513		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o3.tm	Method	TBLASTX:Maize
Start	7912	End	13018
GI	none	Score	160
Exons	7912..8151, 7913..8140, 7945..8145, 12932..13018		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o2.ts	Method	TBLASTX:Soybean
Start	12914	End	13181
GI	none	Score	119
Exons	12914..13180, 12981..13181		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-

Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o3.tw	Method	TBLASTX:Wheat
Start	13034	End	13579
GI	none	Score	316
Exons	13034..13240, 13235..13579		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o2.tm	Method	TBLASTX:Maize
Start	13115	End	13580
GI	none	Score	65
Exons	13115..13579, 13482..13580		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o1.ts	Method	TBLASTX:Soybean
Start	13250	End	13714
GI	5509260	Score	58
Exons	13250..13714, 13269..13328, 13401..13619		
GI Descrip.	-		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o1.tc	Method	TBLASTX:Cress
Start	13361	End	13621
GI	none	Score	116
Exons	13361..13621, 13449..13619		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o1.tw	Method	TBLASTX:Wheat
Start	13634	End	14385
GI	none	Score	190
Exons	13634..14152, 13635..13793, 13654..13827, 13902..14153, 13944..14153, 14159..14257, 14161..14265, 14257..14385, 14261..14380		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o3.ts	Method	TBLASTX:Soybean
Start	14039	End	14433
GI	none	Score	46
Exons	14039..14146, 14163..14207, 14165..14209, 14263..14418, 14263..14433, 14267..14425		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o4.tm	Method	TBLASTX:Maize
Start	14263	End	14655
GI	none	Score	226
Exons	14263..14655		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o4.tw	Method	TBLASTX:Wheat
Start	14386	End	14580
GI	none	Score	167
Exons	14386..14580, 14386..14577		

Seq. No.	15127	Seq. ID	OJ990517_24.9A01.C14
Gene No.	32145	Strand	-
Start	7732	End	15290
Name	OJ990517_24.9A01.C14.o1.tm	Method	TBLASTX:Maize
Start	14856	End	15171
GI	none	Score	363
Exons	14856..15017, 14857..15171, 14858..15151		

Seq. No.	15128	Seq. ID	OJ990517_24.9A01.C15
Gene No.	32146	Strand	-
Start	20	End	423
Name	OJ990517_24.9A01.C15.o1.gs	Method	GENSCAN
Start	20	End	423
GI	none	Score	.84
Exons	20..219, 365..423		

Seq. No.	15129	Seq. ID	OJ990517_24.9A01.C17
Gene No.	32147	Strand	-
Start	1	End	754
Name	OJ990517_24.9A01.C17.o1.np	Method	AAT/NAP
Start	1	End	754
GI	5834248	Score	124
Exons	1..215, 593..754		
GI Descrip.	(AF175124) SINAH1 protein [Gossypium hirsutum]		

Seq. No.	15129	Seq. ID	OJ990517_24.9A01.C17
Gene No.	32147	Strand	-
Start	1	End	754
Name	OJ990517_24.9A01.C17.o1.gs	Method	GENSCAN
Start	106	End	405
GI	none	Score	.72
Exons	106..405		

Seq. No.	15129	Seq. ID	OJ990517_24.9A01.C17
Gene No.	32148	Strand	-
Start	1821	End	3225
Name	OJ990517_24.9A01.C17.o2.gs	Method	GENSCAN
Start	1821	End	3105
GI	none	Score	.67
Exons	1821..1973, 2950..3105		

Seq. No.	15129	Seq. ID	OJ990517_24.9A01.C17
Gene No.	32148	Strand	-
Start	1821	End	3225
Name	OJ990517_24.9A01.C17.o2.gp	Method	AAT/GAP
Start	2097	End	3107
GI	12132_1.R1084	Score	807
Exons	2097..2378, 2950..3107		

GI Descrip.	'5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		
Seq. No.	15129	Seq. ID	OJ990517_24.9A01.C17
Gene No.	32148	Strand	-
Start	1821	End	3225
Name	OJ990517_24.9A01.C17.o1.tm	Method	TBLASTX:Maize
Start	2229	End	3108
GI	none	Score	73
Exons	2229..2276, 2230..2283, 2274..2357, 2274..2366, 2923..3033, 2950..3108, 2960..3106, 2973..3107		
Seq. No.	15129	Seq. ID	OJ990517_24.9A01.C17
Gene No.	32148	Strand	-
Start	1821	End	3225
Name	OJ990517_24.9A01.C17.o2.np	Method	AAT/NAP
Start	2307	End	3225
GI	2674203	Score	122
Exons	2307..2381, 2950..3225		
GI Descrip.	(AF036328) CLP protease regulatory subunit CLPX [Arabidopsis thaliana]		
Seq. No.	15130	Seq. ID	OJ990517_24.9A01.C18
Gene No.	32149	Strand	-
Start	1	End	2103
Name	OJ990517_24.9A01.C18.o1.np	Method	AAT/NAP
Start	1	End	2103
GI	2674203	Score	311
Exons	1..52, 590..698, 802..901, 986..1056, 1503..1576, 2048..2103		
GI Descrip.	(AF036328) CLP protease regulatory subunit CLPX [Arabidopsis thaliana]		
Seq. No.	15130	Seq. ID	OJ990517_24.9A01.C18
Gene No.	32149	Strand	-
Start	1	End	2103
Name	OJ990517_24.9A01.C18.o1.tm	Method	TBLASTX:Maize
Start	582	End	1575
GI	none	Score	82
Exons	582..698, 591..722, 592..699, 799..912, 800..913, 820..915, 979..1062, 986..1063, 1473..1574, 1507..1575		
Seq. No.	15130	Seq. ID	OJ990517_24.9A01.C18
Gene No.	32149	Strand	-
Start	1	End	2103
Name	OJ990517_24.9A01.C18.o1.tc	Method	TBLASTX:Cress
Start	591	End	1575
GI	none	Score	89
Exons	591..698, 591..698, 592..699, 799..912, 800..913, 985..1062, 986..1063, 1473..1574, 1504..1575		
Seq. No.	15131	Seq. ID	OJ990517_24.9A01.C19
Gene No.	32150	Strand	-
Start	533	End	1880
Name	OJ990517_24.9A01.C19.o1.gs	Method	GENSCAN
Start	533	End	1165
GI	none	Score	.67
Exons	533..607, 1082..1165		

Seq. No.	15131	Seq. ID	OJ990517_24.9A01.C19
Gene No.	32150	Strand	-
Start	533	End	1880
Name	OJ990517_24.9A01.C19.o1.np	Method	AAT/NAP
Start	557	End	1877
GI	2674203	Score	226
Exons	557..607, 1082..1161, 1627..1727, 1816..1877		
GI Descrip.	(AF036328) CLP protease regulatory subunit CLPX [Arabidopsis thaliana]		

Seq. No.	15131	Seq. ID	OJ990517_24.9A01.C19
Gene No.	32150	Strand	-
Start	533	End	1880
Name	OJ990517_24.9A01.C19.o1.tm	Method	TBLASTX:Maize
Start	1070	End	1880
GI	none	Score	122
Exons	1070..1165, 1082..1168, 1084..1167, 1626..1727, 1628..1729, 1628..1729, 1629..1748, 1834..1878, 1836..1880, 1842..1880		

Seq. No.	15131	Seq. ID	OJ990517_24.9A01.C19
Gene No.	32150	Strand	-
Start	533	End	1880
Name	OJ990517_24.9A01.C19.o1.gp	Method	AAT/GAP
Start	1102	End	1879
GI	4878621	Score	368
Exons	1102..1161, 1626..1727, 1816..1879		
GI Descrip.	2674203/gb|AAB88706.1| 8.0e-32 (AF036328) CLP protease regulatory subunit CLPX [Arabidopsis thaliana]		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21
Gene No.	32151	Strand	+
Start	4973	End	7214
Name	OJ990517_24.9A01.C21.o3.gs	Method	GENSCAN
Start	4973	End	7214
GI	none	Score	.97
Exons	4973..5218, 5292..7214		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21
Gene No.	32151	Strand	+
Start	4973	End	7214
Name	OJ990517_24.9A01.C21.o1.np	Method	AAT/NAP
Start	5033	End	7211
GI	6850871	Score	1101
Exons	5033..5218, 5292..6719, 6852..7211		
GI Descrip.	(AL132959) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21
Gene No.	32152	Strand	-
Start	697	End	1014
Name	OJ990517_24.9A01.C21.o1.gs	Method	GENSCAN
Start	697	End	1014
GI	none	Score	.99
Exons	697..1014		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21
Gene No.	32153	Strand	-

Start	1690	End	4084
Name	OJ990517_24.9A01.C21.o2.gs	Method	GENSCAN
Start	1690	End	4084
GI	none	Score	.87
Exons	1690..1850, 3763..4084		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21
Gene No.	32154	Strand	-
Start	7330	End	9084
Name	OJ990517_24.9A01.C21.o2.tm	Method	TBLASTX:Maize
Start	5050	End	5492
GI	none	Score	202
Exons	5050..5220, 5072..5230, 5274..5492, 5280..5375, 5291..5491		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21
Gene No.	32154	Strand	-
Start	7330	End	9084
Name	OJ990517_24.9A01.C21.o2.ts	Method	TBLASTX:Soybean
Start	5072	End	5402
GI	none	Score	124
Exons	5072..5233, 5286..5402		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21
Gene No.	32154	Strand	-
Start	7330	End	9084
Name	OJ990517_24.9A01.C21.o3.ts	Method	TBLASTX:Soybean
Start	5610	End	5911
GI	none	Score	186
Exons	5610..5909, 5615..5716, 5822..5911		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21
Gene No.	32154	Strand	-
Start	7330	End	9084
Name	OJ990517_24.9A01.C21.o3.tm	Method	TBLASTX:Maize
Start	5763	End	6005
GI	none	Score	50
Exons	5763..5804, 5786..6004, 5787..6005		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21
Gene No.	32154	Strand	-
Start	7330	End	9084
Name	OJ990517_24.9A01.C21.o1.ts	Method	TBLASTX:Soybean
Start	6360	End	7178
GI	none	Score	358
Exons	6360..6611, 6366..6608, 6373..6615, 6798..6899, 6861..6998, 7023..7178		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21
Gene No.	32154	Strand	-
Start	7330	End	9084
Name	OJ990517_24.9A01.C21.o1.tm	Method	TBLASTX:Maize
Start	6539	End	7163
GI	none	Score	158
Exons	6539..6655, 6540..6656, 6616..6663, 6621..6689, 6622..6687, 6765..6905, 6776..6880, 6900..7163, 6913..7113, 7005..7163		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21

Gene No.	32154	Strand	-
Start	7330	End	9084
Name	OJ990517_24.9A01.C21.o1.tw	Method	TBLASTX:Wheat
Start	7038	End	7226
GI	none	Score	164
Exons	7038..7226, 7040..7216, 7050..7226		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21
Gene No.	32154	Strand	-
Start	7330	End	9084
Name	OJ990517_24.9A01.C21.o2.np	Method	AAT/NAP
Start	7330	End	9084
GI	3080422	Score	165
Exons	7330..7359, 8559..8731, 8807..9084		
GI Descrip.	(AL022604) putative zinc-finger protein [Arabidopsis thaliana]		

Seq. No.	15132	Seq. ID	OJ990517_24.9A01.C21
Gene No.	32154	Strand	-
Start	7330	End	9084
Name	OJ990517_24.9A01.C21.o4.gs	Method	GENSCAN
Start	8444	End	9082
GI	none	Score	.89
Exons	8444..9082		

Seq. No.	15133	Seq. ID	OJ990517_24.9A01.C22
Gene No.	32155	Strand	+
Start	2131	End	4349
Name	OJ990517_24.9A01.C22.o1.np	Method	AAT/NAP
Start	2131	End	4349
GI	2565010	Score	458
Exons	2131..3241, 4330..4349		
GI Descrip.	(AC002983) putative microfibril-associated protein [Arabidopsis thaliana] gi|3377811 (AF076275) contains similarity to ATP synthase B/B' (Pfam: ATP-synt_B.hmm, score: 11.71) [Arabidopsis thaliana]		

Seq. No.	15133	Seq. ID	OJ990517_24.9A01.C22
Gene No.	32155	Strand	+
Start	2131	End	4349
Name	OJ990517_24.9A01.C22.o1.gs	Method	GENSCAN
Start	2164	End	4208
GI	none	Score	.5
Exons	2164..3171, 3884..3913, 4134..4208		

Seq. No.	15133	Seq. ID	OJ990517_24.9A01.C22
Gene No.	32155	Strand	+
Start	2131	End	4349
Name	OJ990517_24.9A01.C22.o1.tm	Method	TBLASTX:Maize
Start	2998	End	3216
GI	none	Score	67
Exons	2998..3048, 3012..3050, 3094..3216, 3096..3215		

Seq. No.	15133	Seq. ID	OJ990517_24.9A01.C22
Gene No.	32155	Strand	+
Start	2131	End	4349
Name	OJ990517_24.9A01.C22.o1.ts	Method	TBLASTX:Soybean
Start	3097	End	3242

GI	none	Score	193
Exons	3097..3234, 3105..3242		

Seq. No.	15134	Seq. ID	OJ990517_24.9A01.C24
Gene No.	32156	Strand	+
Start	2173	End	4337
Name	OJ990517_24.9A01.C24.o1.np	Method	AAT/NAP
Start	2173	End	4327
GI	1346850	Score	102
Exons	2173..2200, 3961..4153, 4267..4327		
GI Descrip.	PHOTOSYSTEM II D2 PROTEIN (PHOTOSYSTEM Q(A) PROTEIN) gi|1363580|pir||S58536 photosystem II protein D2 - maize chloroplast gi|902206|emb|CAA60270| (X86563) PSII D2 protein [Zea mays]		

Seq. No.	15134	Seq. ID	OJ990517_24.9A01.C24
Gene No.	32156	Strand	+
Start	2173	End	4337
Name	OJ990517_24.9A01.C24.o2.np	Method	AAT/NAP
Start	3406	End	4337
GI	133435	Score	98
Exons	3406..3498, 4106..4337		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE BETA' CHAIN gi|66983|pir||RNRZC1 DNA-directed RNA polymerase (EC 2.7.7.6) beta'-1 chain - rice chloroplast gi|11972|emb|CAA33987| (X15901) RNA polymerase beta' subunit-1 [Oryza sativa] gi|226690|prf||1603356Q RNA polymerase beta'-1 [Oryza sativa]		

Seq. No.	15134	Seq. ID	OJ990517_24.9A01.C24
Gene No.	32157	Strand	-
Start	900	End	2172
Name	OJ990517_24.9A01.C24.o1.gs	Method	GENSCAN
Start	900	End	2172
GI	none	Score	.61
Exons	900..1911, 1928..2172		

Seq. No.	15135	Seq. ID	OJ990517_24.9A01.C26
Gene No.	32158	Strand	-
Start	281	End	319
Name	OJ990517_24.9A01.C26.o1.gs	Method	GENSCAN
Start	281	End	319
GI	none	Score	.42
Exons	281..319		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32159	Strand	+
Start	4068	End	11178
Name	OJ990517_24.9A01.C27.o3.np	Method	AAT/NAP
Start	4068	End	11178
GI	5852180	Score	364
Exons	4068..4231, 6660..6753, 6914..7068, 7323..7701, 11130..11178		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o1.gs	Method	GENSCAN

Start	97	End	4612
GI	none	Score	.75
Exons	97..3236, 3424..4612		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o1.np	Method	AAT/NAP
Start	100	End	4618
GI	4680179	Score	5339
Exons	100..3502, 3536..4618		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o7.tw	Method	TBLASTX:Wheat
Start	145	End	478
GI	none	Score	132
Exons	145..477, 166..474, 209..478		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o1.tm	Method	TBLASTX:Maize
Start	325	End	924
GI	none	Score	199
Exons	325..765, 341..763, 763..924, 770..916		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o1.tw	Method	TBLASTX:Wheat
Start	478	End	1104
GI	none	Score	82
Exons	478..1104, 481..732, 590..1048		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o4.tm	Method	TBLASTX:Maize
Start	973	End	1265
GI	none	Score	212
Exons	973..1263, 977..1264, 1077..1265		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o2.ts	Method	TBLASTX:Soybean
Start	1062	End	1323
GI	none	Score	150
Exons	1062..1244, 1063..1323, 1064..1318		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o1.tc	Method	TBLASTX:Cress

Start	1087	End	1404
GI	none	Score	85
Exons	1087..1230, 1088..1228, 1231..1404		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o2.tw	Method	TBLASTX:Wheat
Start	1111	End	1678
GI	none	Score	343
Exons	1111..1647, 1112..1678		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o2.tm	Method	TBLASTX:Maize
Start	1669	End	2032
GI	none	Score	167
Exons	1669..2031, 1678..2031, 1682..2032		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o3.tw	Method	TBLASTX:Wheat
Start	1681	End	2103
GI	none	Score	359
Exons	1681..2103, 1682..2071		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o3.ts	Method	TBLASTX:Soybean
Start	1852	End	2097
GI	none	Score	93
Exons	1852..2097, 1853..2080		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o3.tm	Method	TBLASTX:Maize
Start	2068	End	2568
GI	none	Score	50
Exons	2068..2382, 2111..2161, 2189..2242, 2389..2568, 2414..2560		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o6.tw	Method	TBLASTX:Wheat
Start	2104	End	2406
GI	none	Score	267
Exons	2104..2406, 2120..2404		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o1.ts	Method	TBLASTX:Soybean
Start	2119	End	2514

GI	none	Score	199
Exons	2119..2478, 2120..2410, 2438..2476, 2482..2514, 2483..2512		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o5.tw	Method	TBLASTX:Wheat
Start	2455	End	8560
GI	none	Score	247
Exons	2455..2937, 2498..2941, 8384..8560		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o5.tm	Method	TBLASTX:Maize
Start	2636	End	8554
GI	none	Score	175
Exons	2636..2926, 2638..2925, 8432..8554		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o9.tw	Method	TBLASTX:Wheat
Start	3052	End	3475
GI	none	Score	71
Exons	3052..3219, 3107..3220, 3275..3475, 3309..3419		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o6.tm	Method	TBLASTX:Maize
Start	3839	End	4144
GI	none	Score	89
Exons	3839..4144, 3966..4130		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o8.tw	Method	TBLASTX:Wheat
Start	4025	End	4385
GI	none	Score	157
Exons	4025..4384, 4026..4385		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o4.np	Method	AAT/NAP
Start	4270	End	10707
GI	6498441	Score	2053
Exons	4270..4301, 8421..8794, 8858..9308, 9645..10707		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050

Name	OJ990517_24.9A01.C27.o2.gs	Method	GENSCAN
Start	5004	End	11050
GI	none	Score	.65
Exons	5004..5672, 7399..7807, 8331..8397, 8524..8794, 8873..9660, 9821..9892, 10002..10549, 10615..10801, 10838..11050		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o1.gp	Method	AAT/GAP
Start	6562	End	6945
GI	uC-osf1cyp033a04b1	Score	685
Exons	6562..6945		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o4.tw	Method	TBLASTX:Wheat
Start	8665	End	9425
GI	none	Score	165
Exons	8665..8868, 8666..8917, 8667..8831, 8894..9424, 8913..9230, 9252..9425		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o10.tw	Method	TBLASTX:Wheat
Start	10168	End	10510
GI	none	Score	109
Exons	10168..10440, 10202..10441, 10408..10506, 10409..10510		

Seq. No.	15136	Seq. ID	OJ990517_24.9A01.C27
Gene No.	32160	Strand	-
Start	97	End	11050
Name	OJ990517_24.9A01.C27.o7.tm	Method	TBLASTX:Maize
Start	10270	End	10519
GI	none	Score	84
Exons	10270..10518, 10271..10519		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32161	Strand	+
Start	454	End	3222
Name	OJ990517_24.9A01.C28.o1.gs	Method	GENSCAN
Start	454	End	3222
GI	none	Score	.4
Exons	454..545, 1478..1584, 2177..2231, 3066..3222		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32162	Strand	+
Start	8259	End	8344
Name	OJ990517_24.9A01.C28.o2.np	Method	AAT/NAP
Start	8259	End	8344
GI	6630699	Score	76
Exons	8259..8344		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa]		

gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32163	Strand	+
Start	10663	End	13798
Name	OJ990517_24.9A01.C28.o3.np	Method	AAT/NAP
Start	10663	End	13795
GI	6907089	Score	4109
Exons	10663..11924, 12025..13795		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32163	Strand	+
Start	10663	End	13798
Name	OJ990517_24.9A01.C28.o5.gs	Method	GENSCAN
Start	10663	End	13798
GI	none	Score	.68
Exons	10663..10792, 10859..11924, 11974..13331, 13377..13555, 13652..13798		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32164	Strand	+
Start	19437	End	19743
Name	OJ990517_24.9A01.C28.o2.gp	Method	AAT/GAP
Start	19437	End	19743
GI	61605_3.R1084	Score	457
Exons	19437..19743		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32165	Strand	-
Start	5458	End	8316
Name	OJ990517_24.9A01.C28.o1.np	Method	AAT/NAP
Start	5458	End	8206
GI	5922620	Score	549
Exons	5458..5557, 6918..7175, 7223..7403, 7972..8126, 8168..8206		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32165	Strand	-
Start	5458	End	8316
Name	OJ990517_24.9A01.C28.o3.gs	Method	GENSCAN
Start	7454	End	8316
GI	none	Score	.61
Exons	7454..7632, 7943..7967, 8013..8142, 8255..8316		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32166	Strand	-
Start	8804	End	10381
Name	OJ990517_24.9A01.C28.o4.gs	Method	GENSCAN
Start	8804	End	10381

GI	none	Score	.47
Exons	8804..9109, 9289..9459, 9739..9766, 10278..10381		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o3.tw	Method	TBLASTX:Wheat
Start	388	End	18186
GI	none	Score	78
Exons	388..480, 17700..18185, 17727..17966, 17731..17991, 18013..18186		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o4.np	Method	AAT/NAP
Start	13040	End	19465
GI	6498441	Score	6687
Exons	13040..13114, 14377..15782, 15954..16677, 16852..16986, 17170..17543, 17607..18070, 18401..19465		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o6.gs	Method	GENSCAN
Start	14031	End	19595
GI	none	Score	.63
Exons	14031..14229, 14359..15376, 15500..15749, 16152..17543, 17622..18551, 18553..18712, 18718..19018, 19115..19595		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o7.tw	Method	TBLASTX:Wheat
Start	14338	End	14598
GI	none	Score	149
Exons	14338..14481, 14349..14597, 14350..14595, 14557..14598		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o4.tw	Method	TBLASTX:Wheat
Start	14602	End	15003
GI	none	Score	243
Exons	14602..15003, 14622..15002		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o2.tm	Method	TBLASTX:Maize
Start	14817	End	15140
GI	none	Score	218
Exons	14817..15140, 14830..15111		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28

Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o8.tw	Method	TBLASTX:Wheat
Start	15333	End	15645
GI	none	Score	63
Exons	15333..15593, 15444..15632, 15469..15645		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o2.ts	Method	TBLASTX:Soybean
Start	15393	End	15959
GI	5666795	Score	68
Exons	15393..15593, 15648..15785, 15861..15959		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o5.tw	Method	TBLASTX:Wheat
Start	15648	End	16082
GI	none	Score	87
Exons	15648..15797, 15649..15786, 15663..15809, 15831..16082, 15832..16017, 15885..16067		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o1.ts	Method	TBLASTX:Soybean
Start	16515	End	16886
GI	none	Score	287
Exons	16515..16886		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o2.tw	Method	TBLASTX:Wheat
Start	16545	End	16965
GI	none	Score	292
Exons	16545..16964, 16570..16965		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o3.tm	Method	TBLASTX:Maize
Start	16638	End	17022
GI	none	Score	242
Exons	16638..17021, 16657..17022		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o1.tm	Method	TBLASTX:Maize
Start	17049	End	17405
GI	none	Score	75
Exons	17049..17165, 17049..17405, 17059..17370		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o1.tw	Method	TBLASTX:Wheat
Start	17073	End	17536
GI	none	Score	218
Exons	17073..17534, 17079..17534, 17080..17535, 17093..17536		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o3.ts	Method	TBLASTX:Soybean
Start	17130	End	17495
GI	none	Score	118
Exons	17130..17264, 17271..17495		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o6.tw	Method	TBLASTX:Wheat
Start	18924	End	19262
GI	none	Score	85
Exons	18924..19181, 18958..19185, 19164..19262, 19165..19245		

Seq. No.	15137	Seq. ID	OJ990517_24.9A01.C28
Gene No.	32167	Strand	-
Start	13040	End	19595
Name	OJ990517_24.9A01.C28.o4.tm	Method	TBLASTX:Maize
Start	19026	End	19310
GI	none	Score	105
Exons	19026..19274, 19027..19272, 19038..19310		

Seq. No.	15138	Seq. ID	OJ990517_24.9A01.C29
Gene No.	32168	Strand	+
Start	611	End	1292
Name	OJ990517_24.9A01.C29.o1.gs	Method	GENSCAN
Start	611	End	1292
GI	none	Score	.95
Exons	611..721, 1167..1292		

Seq. No.	15138	Seq. ID	OJ990517_24.9A01.C29
Gene No.	32169	Strand	+
Start	3848	End	4159
Name	OJ990517_24.9A01.C29.o3.gp	Method	AAT/GAP
Start	3848	End	4159
GI	61605_3.R1084	Score	463
Exons	3848..4159		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	15138	Seq. ID	OJ990517_24.9A01.C29
Gene No.	32170	Strand	-
Start	423	End	3724
Name	OJ990517_24.9A01.C29.o1.np	Method	AAT/NAP
Start	423	End	2307
GI	6063554	Score	321
Exons	423..598, 1236..1263, 1737..1966, 2085..2307		

GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	15138	Seq. ID	OJ990517_24.9A01.C29
Gene No.	32170	Strand	-
Start	423	End	3724
Name	OJ990517_24.9A01.C29.o1.gp	Method	AAT/GAP
Start	1040	End	1769
GI	101153_1.R1084	Score	420
Exons	1040..1263, 1739..1769		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		
Seq. No.	15138	Seq. ID	OJ990517_24.9A01.C29
Gene No.	32170	Strand	-
Start	423	End	3724
Name	OJ990517_24.9A01.C29.o2.gs	Method	GENSCAN
Start	1696	End	3724
GI	none	Score	.85
Exons	1696..1875, 3149..3358, 3593..3724		
Seq. No.	15138	Seq. ID	OJ990517_24.9A01.C29
Gene No.	32170	Strand	-
Start	423	End	3724
Name	OJ990517_24.9A01.C29.o2.gp	Method	AAT/GAP
Start	1773	End	1997
GI	none	Score	399
Exons	1773..1997		
Seq. No.	15139	Seq. ID	OJ990517_24.9A01.C30
Gene No.	32171	Strand	+
Start	148	End	194
Name	OJ990517_24.9A01.C30.o1.gs	Method	GENSCAN
Start	148	End	194
GI	none	Score	.73
Exons	148..194		
Seq. No.	15139	Seq. ID	OJ990517_24.9A01.C30
Gene No.	32172	Strand	-
Start	346	End	1575
Name	OJ990517_24.9A01.C30.o2.gs	Method	GENSCAN
Start	346	End	1494
GI	none	Score	.91
Exons	346..917, 954..1125, 1426..1494		
Seq. No.	15139	Seq. ID	OJ990517_24.9A01.C30
Gene No.	32172	Strand	-
Start	346	End	1575
Name	OJ990517_24.9A01.C30.o1.np	Method	AAT/NAP
Start	358	End	1575
GI	5042454	Score	727
Exons	358..864, 918..1025, 1426..1575		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	15140	Seq. ID	OJ990517_24.9A01.C32
Gene No.	32173	Strand	+

Start	171	End	1826
Name	OJ990517_24.9A01.C32.o1.gs	Method	GENSCAN
Start	171	End	1826
GI	none	Score	.69
Exons	171..337, 658..759, 1541..1826		

Seq. No.	15140	Seq. ID	OJ990517_24.9A01.C32
Gene No.	32174	Strand	+
Start	3336	End	3967
Name	OJ990517_24.9A01.C32.o1.np	Method	AAT/NAP
Start	3336	End	3967
GI	6573264	Score	254
Exons	3336..3692, 3750..3967		
GI Descrip.	(AF206715) transcription factor GT-3a [Arabidopsis thaliana]		

Seq. No.	15140	Seq. ID	OJ990517_24.9A01.C32
Gene No.	32175	Strand	-
Start	2078	End	3858
Name	OJ990517_24.9A01.C32.o2.gs	Method	GENSCAN
Start	2078	End	3858
GI	none	Score	.52
Exons	2078..2257, 3065..3108, 3204..3294, 3456..3858		

Seq. No.	15140	Seq. ID	OJ990517_24.9A01.C32
Gene No.	32175	Strand	-
Start	2078	End	3858
Name	OJ990517_24.9A01.C32.o1.ts	Method	TBLASTX:Soybean
Start	3474	End	3680
GI	none	Score	229
Exons	3474..3680, 3500..3679		

Seq. No.	15141	Seq. ID	OJ990517_24.9A01.C33
Gene No.	32176	Strand	+
Start	1	End	556
Name	OJ990517_24.9A01.C33.o1.gp	Method	AAT/GAP
Start	1	End	556
GI	none	Score	780
Exons	1..211, 354..556		

Seq. No.	15141	Seq. ID	OJ990517_24.9A01.C33
Gene No.	32176	Strand	+
Start	1	End	556
Name	OJ990517_24.9A01.C33.o1.gs	Method	GENSCAN
Start	6	End	161
GI	none	Score	.88
Exons	6..161		

Seq. No.	15141	Seq. ID	OJ990517_24.9A01.C33
Gene No.	32177	Strand	-
Start	1093	End	5485
Name	OJ990517_24.9A01.C33.o1.np	Method	AAT/NAP
Start	1093	End	5485
GI	103077	Score	94
Exons	1093..1178, 4133..4228, 5426..5485		
GI Descrip.	Bkm-like sex-determining region hypothetical protein CS319 - fruit fly (Drosophila melanogaster) (fragment)		

Seq. No.	15141	Seq. ID	OJ990517_24.9A01.C33
Gene No.	32177	Strand	-
Start	1093	End	5485
Name	OJ990517_24.9A01.C33.o2.gp	Method	AAT/GAP
Start	1103	End	4190
GI	LIB3477-003-P1-K1-E9	Score	136
Exons	1103..1157, 4143..4190		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	15141	Seq. ID	OJ990517_24.9A01.C33
Gene No.	32177	Strand	-
Start	1093	End	5485
Name	OJ990517_24.9A01.C33.o3.gs	Method	GENSCAN
Start	4625	End	5473
GI	none	Score	.5
Exons	4625..4927, 5390..5473		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32178	Strand	+
Start	230	End	499
Name	OJ990517_24.9A01.C34.o1.gp	Method	AAT/GAP
Start	230	End	499
GI	none	Score	486
Exons	230..499		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32179	Strand	+
Start	2206	End	7617
Name	OJ990517_24.9A01.C34.o2.np	Method	AAT/NAP
Start	2206	End	7617
GI	5295971	Score	3565
Exons	2206..2645, 3369..4330, 4358..7617		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32179	Strand	+
Start	2206	End	7617
Name	OJ990517_24.9A01.C34.o3.gs	Method	GENSCAN
Start	3307	End	7613
GI	none	Score	.72
Exons	3307..5366, 5459..7613		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32180	Strand	-
Start	238	End	1035
Name	OJ990517_24.9A01.C34.o1.gs	Method	GENSCAN
Start	238	End	964
GI	none	Score	.86
Exons	238..595, 735..862, 905..964		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32180	Strand	-
Start	238	End	1035

Name	OJ990517_24.9A01.C34.o1.np	Method	AAT/NAP
Start	247	End	1035
GI	5731754	Score	139
Exons	247..597, 926..1035		
GI Descrip.	(AL109819) putative protein [Arabidopsis thaliana]		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32181	Strand	-
Start	3092	End	3285
Name	OJ990517_24.9A01.C34.o2.gp	Method	AAT/GAP
Start	3092	End	3285
GI	20688_1.R1084	Score	287
Exons	3092..3285		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o5.tw	Method	TBLASTX:Wheat
Start	3574	End	3924
GI	none	Score	194
Exons	3574..3924		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o7.tm	Method	TBLASTX:Maize
Start	3648	End	3975
GI	none	Score	217
Exons	3648..3869, 3649..3975, 3661..3915		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o4.tm	Method	TBLASTX:Maize
Start	4441	End	4878
GI	none	Score	48
Exons	4441..4494, 4470..4700, 4471..4689, 4573..4803, 4723..4878		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o2.tw	Method	TBLASTX:Wheat
Start	4492	End	4938
GI	none	Score	288
Exons	4492..4857, 4533..4721, 4576..4860, 4858..4938		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o4.ts	Method	TBLASTX:Soybean
Start	4882	End	5157
GI	none	Score	189
Exons	4882..5157, 4978..5058		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34

Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o2.tm	Method	TBLASTX:Maize
Start	5243	End	5648
GI	none	Score	392
Exons	5243..5554, 5244..5564, 5577..5648		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o4.tw	Method	TBLASTX:Wheat
Start	5243	End	5576
GI	none	Score	185
Exons	5243..5467, 5244..5477, 5486..5560, 5487..5576		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o3.ts	Method	TBLASTX:Soybean
Start	5250	End	5735
GI	none	Score	411
Exons	5250..5735, 5279..5545, 5415..5729		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o2.tc	Method	TBLASTX:Cress
Start	5268	End	5711
GI	none	Score	272
Exons	5268..5711		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o3.tm	Method	TBLASTX:Maize
Start	6092	End	6413
GI	none	Score	402
Exons	6092..6412, 6102..6413		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o1.ts	Method	TBLASTX:Soybean
Start	6099	End	6566
GI	5509260	Score	442
Exons	6099..6566, 6161..6541		
GI Descrip.	-		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o3.tc	Method	TBLASTX:Cress
Start	6177	End	6452
GI	none	Score	250
Exons	6177..6452, 6191..6325		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34

Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o1.tw	Method	TBLASTX:Wheat
Start	6233	End	6899
GI	none	Score	310
Exons	6233..6364, 6234..6581, 6389..6460, 6570..6773, 6792..6899		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o5.tm	Method	TBLASTX:Maize
Start	6615	End	6878
GI	none	Score	272
Exons	6615..6878, 6782..6877		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o5.ts	Method	TBLASTX:Soybean
Start	6702	End	6938
GI	none	Score	182
Exons	6702..6938		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o1.tm	Method	TBLASTX:Maize
Start	6882	End	7334
GI	none	Score	508
Exons	6882..7334, 6885..7064, 6887..7306		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o1.tc	Method	TBLASTX:Cress
Start	6911	End	7586
GI	none	Score	267
Exons	6911..7036, 6912..7208, 7142..7213, 7218..7334, 7226..7312, 7332..7586, 7385..7543		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o2.ts	Method	TBLASTX:Soybean
Start	6942	End	7592
GI	none	Score	127
Exons	6942..7112, 7113..7592, 7115..7312, 7266..7535		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o3.tw	Method	TBLASTX:Wheat
Start	7134	End	7547
GI	none	Score	152
Exons	7134..7337, 7238..7309, 7374..7547		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34

Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o6.tm	Method	TBLASTX:Maize
Start	7335	End	7580
GI	none	Score	251
Exons	7335..7580, 7382..7447		

Seq. No.	15142	Seq. ID	OJ990517_24.9A01.C34
Gene No.	32182	Strand	-
Start	7859	End	10663
Name	OJ990517_24.9A01.C34.o4.gs	Method	GENSCAN
Start	7859	End	10663
GI	none	Score	.87
Exons	7859..7939, 8115..8283, 10641..10663		

Seq. No.	15143	Seq. ID	OJ990517_24.9A01.C35
Gene No.	32183	Strand	+
Start	1720	End	4923
Name	OJ990517_24.9A01.C35.o1.gp	Method	AAT/GAP
Start	1720	End	3691
GI	uC-osrocyp005f03b1	Score	883
Exons	1720..2131, 3609..3691		
GI Descrip.	'2853041/emb|CAA63777| 2.0e-09 (X93564) 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase [Solanum tuberosum]'		

Seq. No.	15143	Seq. ID	OJ990517_24.9A01.C35
Gene No.	32183	Strand	+
Start	1720	End	4923
Name	OJ990517_24.9A01.C35.o1.gs	Method	GENSCAN
Start	1789	End	4160
GI	none	Score	.91
Exons	1789..2131, 3110..3214, 3609..3805, 4140..4160		

Seq. No.	15143	Seq. ID	OJ990517_24.9A01.C35
Gene No.	32183	Strand	+
Start	1720	End	4923
Name	OJ990517_24.9A01.C35.o1.np	Method	AAT/NAP
Start	1903	End	4923
GI	1399303	Score	417
Exons	1903..1982, 2287..2417, 3591..3805, 4639..4774, 4869..4923		
GI Descrip.	(U41473) phosphoinositide-specific phospholipase C P12 [Glycine max]		

Seq. No.	15143	Seq. ID	OJ990517_24.9A01.C35
Gene No.	32184	Strand	+
Start	4853	End	4923
Name	OJ990517_24.9A01.C35.o2.gp	Method	AAT/GAP
Start	4853	End	4923
GI	99821_1.R1084	Score	142
Exons	4853..4923		
GI Descrip.	'1399307 1.0e-13 (U41475) phosphoinositide-specific phospholipase C P25 [Glycine max]'		

Seq. No.	15143	Seq. ID	OJ990517_24.9A01.C35
Gene No.	32185	Strand	-
Start	4463	End	4922

Name	OJ990517_24.9A01.C35.o1.tm	Method	TBLASTX:Maize
Start	1785	End	1968
GI	none	Score	246
Exons	1785..1871, 1786..1968		

Seq. No.	15143	Seq. ID	OJ990517_24.9A01.C35
Gene No.	32185	Strand	-
Start	4463	End	4922
Name	OJ990517_24.9A01.C35.o1.tc	Method	TBLASTX:Cress
Start	1810	End	4783
GI	none	Score	67
Exons	1810..1893, 1897..1944, 3606..3803, 3608..3805, 4639..4770, 4640..4783		

Seq. No.	15143	Seq. ID	OJ990517_24.9A01.C35
Gene No.	32185	Strand	-
Start	4463	End	4922
Name	OJ990517_24.9A01.C35.o1.ts	Method	TBLASTX:Soybean
Start	3609	End	4922
GI	none	Score	291
Exons	3609..3806, 3617..3805, 4640..4783, 4860..4922		

Seq. No.	15143	Seq. ID	OJ990517_24.9A01.C35
Gene No.	32185	Strand	-
Start	4463	End	4922
Name	OJ990517_24.9A01.C35.o2.tm	Method	TBLASTX:Maize
Start	3660	End	4922
GI	none	Score	46
Exons	3660..3683, 3684..3803, 3686..3802, 4639..4782, 4640..4783, 4860..4922		

Seq. No.	15143	Seq. ID	OJ990517_24.9A01.C35
Gene No.	32185	Strand	-
Start	4463	End	4922
Name	OJ990517_24.9A01.C35.o2.gs	Method	GENSCAN
Start	4463	End	4894
GI	none	Score	.52
Exons	4463..4753, 4808..4894		

Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32186	Strand	+
Start	1	End	1873
Name	OJ990517_24.9A01.C36.o1.gp	Method	AAT/GAP
Start	1	End	802
GI	3763488	Score	555
Exons	1..105, 463..612, 740..802		
GI Descrip.	1399307 3.0e-42 (U41475) phosphoinositide-specific phospholipase C P25 [Glycine max]		

Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32186	Strand	+
Start	1	End	1873
Name	OJ990517_24.9A01.C36.o1.np	Method	AAT/NAP
Start	1	End	1527
GI	2129670	Score	664
Exons	1..105, 463..612, 740..826, 1237..1527		
GI Descrip.	phosphoinositide-specific phospholipase C - Arabidopsis thaliana		

gi|857374|dbj|BAA09432| (D50804) phosphoinositide specific phospholipase C [Arabidopsis thaliana]

Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32186	Strand	+
Start	1	End	1873
Name	OJ990517_24.9A01.C36.o1.gs	Method	GENSCAN
Start	100	End	1530
GI	none	Score	.65
Exons	100..105, 463..612, 704..826, 1237..1530		

Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32186	Strand	+
Start	1	End	1873
Name	OJ990517_24.9A01.C36.o2.gp	Method	AAT/GAP
Start	1233	End	1873
GI	23320_1.R1084	Score	1115
Exons	1233..1873		
GI Descrip.	'3603463 5.0e-17 (AF088983) heat shock protein hsp40-3 [Mus musculus] >gi_3747001_gb_AAC64141.1_ (AF092536) heat shock protein hsp40-3 [Mus musculus]'		

Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32187	Strand	+
Start	7735	End	10131
Name	OJ990517_24.9A01.C36.o2.tc	Method	TBLASTX:Cress
Start	5	End	1524
GI	none	Score	47
Exons	5..40, 42..104, 43..105, 454..564, 462..569, 541..615, 570..614, 734..835, 739..828, 740..829, 1234..1524, 1236..1310, 1395..1451		

Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32187	Strand	+
Start	7735	End	10131
Name	OJ990517_24.9A01.C36.o2.ts	Method	TBLASTX:Soybean
Start	5	End	1524
GI	none	Score	42
Exons	5..40, 42..104, 43..105, 454..561, 454..564, 462..569, 562..615, 567..617, 728..838, 736..834, 1234..1524, 1236..1514		

Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32187	Strand	+
Start	7735	End	10131
Name	OJ990517_24.9A01.C36.o2.tm	Method	TBLASTX:Maize
Start	11	End	1449
GI	none	Score	50
Exons	11..40, 17..43, 63..104, 64..105, 471..581, 472..555, 567..614, 571..615, 734..826, 739..822, 1206..1316, 1239..1313, 1240..1326, 1330..1428, 1330..1359, 1386..1427, 1425..1448, 1426..1449		

Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32187	Strand	+
Start	7735	End	10131
Name	OJ990517_24.9A01.C36.o2.tw	Method	TBLASTX:Wheat
Start	469	End	796
GI	none	Score	121

Exons	469..564, 504..563, 565..615, 728..796, 733..795, 734..796		
Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32187	Strand	+
Start	7735	End	10131
Name	OJ990517_24.9A01.C36.o2.np	Method	AAT/NAP
Start	7711	End	10028
GI	3913366	Score	621
Exons	7711..8613, 8650..10028		
GI Descrip.	PUTATIVE RECEPTOR PROTEIN KINASE CRINKLY4 PRECURSOR gi|1597723 (U67422) CRINKLY4 precursor [Zea mays]		
Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32187	Strand	+
Start	7735	End	10131
Name	OJ990517_24.9A01.C36.o3.gs	Method	GENSCAN
Start	7735	End	10131
GI	none	Score	.85
Exons	7735..8598, 8692..10131		
Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32187	Strand	+
Start	7735	End	10131
Name	OJ990517_24.9A01.C36.o1.ts	Method	TBLASTX:Soybean
Start	9097	End	10032
GI	none	Score	105
Exons	9097..9243, 9162..9239, 9267..9344, 9268..9420, 9465..9653, 9469..9651, 9645..9794, 9646..9813, 9808..10032		
Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32187	Strand	+
Start	7735	End	10131
Name	OJ990517_24.9A01.C36.o1.tm	Method	TBLASTX:Maize
Start	9160	End	9804
GI	none	Score	93
Exons	9160..9231, 9283..9420, 9472..9642, 9477..9626, 9645..9785, 9646..9804		
Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32187	Strand	+
Start	7735	End	10131
Name	OJ990517_24.9A01.C36.o1.tc	Method	TBLASTX:Cress
Start	9163	End	9795
GI	none	Score	91
Exons	9163..9261, 9283..9417, 9472..9642, 9661..9795		
Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32187	Strand	+
Start	7735	End	10131
Name	OJ990517_24.9A01.C36.o1.tw	Method	TBLASTX:Wheat
Start	9361	End	9723
GI	none	Score	394
Exons	9361..9651, 9384..9638, 9633..9722, 9655..9723		
Seq. No.	15144	Seq. ID	OJ990517_24.9A01.C36
Gene No.	32187	Strand	+
Start	7735	End	10131

Name	OJ990517_24.9A01.C36.o3.tc	Method	TBLASTX:Cress
Start	9838	End	10038
GI	none	Score	192
Exons	9838..10038		

Seq. No.	15145	Seq. ID	OJ990517_24.9A01.C37
Gene No.	32188	Strand	+
Start	1719	End	5166
Name	OJ990517_24.9A01.C37.o2.tc	Method	TBLASTX:Cress
Start	1701	End	4887
GI	none	Score	144
Exons	1701..1826, 1719..1805, 1844..1882, 1855..1887, 1954..2025, 1968..2042, 2088..2129, 2226..2333, 2230..2334, 2242..2334, 4708..4887, 4710..4883		

Seq. No.	15145	Seq. ID	OJ990517_24.9A01.C37
Gene No.	32188	Strand	+
Start	1719	End	5166
Name	OJ990517_24.9A01.C37.o2.tm	Method	TBLASTX:Maize
Start	1701	End	2132
GI	none	Score	178
Exons	1701..1826, 1707..1805, 1712..1834, 1844..1882, 1852..1881, 1954..2028, 1966..2007, 1968..2045, 2037..2132		

Seq. No.	15145	Seq. ID	OJ990517_24.9A01.C37
Gene No.	32188	Strand	+
Start	1719	End	5166
Name	OJ990517_24.9A01.C37.o1.ts	Method	TBLASTX:Soybean
Start	1716	End	5148
GI	none	Score	144
Exons	1716..1826, 1719..1805, 1844..1882, 1855..1887, 1954..2025, 1968..2021, 2091..2129, 2226..2333, 2230..2334, 2242..2337, 4708..4941, 4710..4940, 4723..4956, 4939..5148, 4939..5094, 4941..5123		

Seq. No.	15145	Seq. ID	OJ990517_24.9A01.C37
Gene No.	32188	Strand	+
Start	1719	End	5166
Name	OJ990517_24.9A01.C37.o2.tw	Method	TBLASTX:Wheat
Start	1716	End	2028
GI	none	Score	162
Exons	1716..1826, 1716..1805, 1844..1882, 1852..1887, 1966..2007, 1968..2027, 1969..2028		

Seq. No.	15145	Seq. ID	OJ990517_24.9A01.C37
Gene No.	32188	Strand	+
Start	1719	End	5166
Name	OJ990517_24.9A01.C37.o1.np	Method	AAT/NAP
Start	1719	End	5145
GI	6403504	Score	904
Exons	1719..1879, 1969..2333, 4707..5145		
GI Descrip.	(AC010871) putative heat shock protein [Arabidopsis thaliana]		

Seq. No.	15145	Seq. ID	OJ990517_24.9A01.C37
Gene No.	32188	Strand	+
Start	1719	End	5166
Name	OJ990517_24.9A01.C37.o1.gp	Method	AAT/GAP

Start	1771	End	2199
GI	2310645	Score	601
Exons	1771..1879, 1969..2199		
GI Descrip.	3603463 5.0e-17 (AF088983) heat shock protein hsp40-3 [Mus musculus] >gi_3747001_gb_AAC64141.1_ (AF092536) heat shock protein hsp40-3 [Mus musculus]		

Seq. No.	15145	Seq. ID	OJ990517_24.9A01.C37
Gene No.	32188	Strand	+
Start	1719	End	5166
Name	OJ990517_24.9A01.C37.o1.tw	Method	TBLASTX:Wheat
Start	4704	End	5136
GI	none	Score	75
Exons	4704..4838, 4707..5135, 4720..5136		

Seq. No.	15145	Seq. ID	OJ990517_24.9A01.C37
Gene No.	32188	Strand	+
Start	1719	End	5166
Name	OJ990517_24.9A01.C37.o1.tm	Method	TBLASTX:Maize
Start	4707	End	5166
GI	none	Score	73
Exons	4707..4838, 4707..5120, 4708..5166, 4843..5124		

Seq. No.	15145	Seq. ID	OJ990517_24.9A01.C37
Gene No.	32188	Strand	+
Start	1719	End	5166
Name	OJ990517_24.9A01.C37.o1.tc	Method	TBLASTX:Cress
Start	4896	End	5136
GI	none	Score	290
Exons	4896..5123, 4897..5136, 4900..5124		

Seq. No.	15146	Seq. ID	OJ990517_24.9A01.C38
Gene No.	32189	Strand	-
Start	27	End	5865
Name	OJ990517_24.9A01.C38.o1.gs	Method	GENSCAN
Start	27	End	5749
GI	none	Score	.72
Exons	27..308, 4255..4588, 5259..5749		

Seq. No.	15146	Seq. ID	OJ990517_24.9A01.C38
Gene No.	32189	Strand	-
Start	27	End	5865
Name	OJ990517_24.9A01.C38.o1.np	Method	AAT/NAP
Start	63	End	5865
GI	6016680	Score	982
Exons	63..308, 4255..4588, 5259..5865		
GI Descrip.	(AC009991) putative leucoanthocyanidin dioxygenase [Arabidopsis thaliana]		

Seq. No.	15146	Seq. ID	OJ990517_24.9A01.C38
Gene No.	32189	Strand	-
Start	27	End	5865
Name	OJ990517_24.9A01.C38.o1.ts	Method	TBLASTX:Soybean
Start	69	End	5723
GI	none	Score	95
Exons	69..311, 4225..4449, 4225..4593, 4250..4483, 5256..5531, 5258..5530, 5573..5599, 5630..5722, 5646..5723		

Seq. No.	15146	Seq. ID	OJ990517_24.9A01.C38
Gene No.	32189	Strand	-
Start	27	End	5865
Name	OJ990517_24.9A01.C38.o1.tm	Method	TBLASTX:Maize
Start	75	End	4389
GI	none	Score	78
Exons	75..164, 147..311, 206..316, 223..306, 4225..4323, 4249..4323, 4259..4336, 4262..4324, 4271..4387, 4315..4389		

Seq. No.	15146	Seq. ID	OJ990517_24.9A01.C38
Gene No.	32189	Strand	-
Start	27	End	5865
Name	OJ990517_24.9A01.C38.o2.tc	Method	TBLASTX:Cress
Start	75	End	4335
GI	none	Score	67
Exons	75..311, 4225..4335, 4249..4335		

Seq. No.	15146	Seq. ID	OJ990517_24.9A01.C38
Gene No.	32189	Strand	-
Start	27	End	5865
Name	OJ990517_24.9A01.C38.o1.tw	Method	TBLASTX:Wheat
Start	4246	End	4593
GI	none	Score	61
Exons	4246..4329, 4255..4308, 4289..4447, 4315..4446, 4330..4452, 4468..4593		

Seq. No.	15146	Seq. ID	OJ990517_24.9A01.C38
Gene No.	32189	Strand	-
Start	27	End	5865
Name	OJ990517_24.9A01.C38.o3.tc	Method	TBLASTX:Cress
Start	4360	End	4593
GI	none	Score	183
Exons	4360..4593		

Seq. No.	15146	Seq. ID	OJ990517_24.9A01.C38
Gene No.	32189	Strand	-
Start	27	End	5865
Name	OJ990517_24.9A01.C38.o2.tm	Method	TBLASTX:Maize
Start	5241	End	5480
GI	none	Score	121
Exons	5241..5405, 5249..5419, 5420..5470, 5424..5480		

Seq. No.	15146	Seq. ID	OJ990517_24.9A01.C38
Gene No.	32189	Strand	-
Start	27	End	5865
Name	OJ990517_24.9A01.C38.o1.tc	Method	TBLASTX:Cress
Start	5270	End	5722
GI	none	Score	189
Exons	5270..5530, 5271..5528, 5630..5722		

Seq. No.	15147	Seq. ID	OJ990517_24.9A01.C39
Gene No.	32190	Strand	+
Start	67	End	1130
Name	OJ990517_24.9A01.C39.o1.gs	Method	GENSCAN
Start	67	End	1130
GI	none	Score	.89

Exons	67..141, 996..1130		
Seq. No.	15147	Seq. ID	OJ990517_24.9A01.C39
Gene No.	32191	Strand	+
Start	5813	End	8465
Name	OJ990517_24.9A01.C39.o1.np	Method	AAT/NAP
Start	5804	End	8056
GI	5803259	Score	1303
Exons	5804..6740, 6770..7081, 7200..8056		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		
Seq. No.	15147	Seq. ID	OJ990517_24.9A01.C39
Gene No.	32191	Strand	+
Start	5813	End	8465
Name	OJ990517_24.9A01.C39.o3.gs	Method	GENSCAN
Start	5813	End	8465
GI	none	Score	.56
Exons	5813..6173, 6369..7083, 7369..7571, 7725..8130, 8195..8465		
Seq. No.	15147	Seq. ID	OJ990517_24.9A01.C39
Gene No.	32191	Strand	+
Start	5813	End	8465
Name	OJ990517_24.9A01.C39.o1.gp	Method	AAT/GAP
Start	7991	End	8314
GI	61605_3.R1084	Score	437
Exons	7991..8035, 8056..8314		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		
Seq. No.	15147	Seq. ID	OJ990517_24.9A01.C39
Gene No.	32192	Strand	-
Start	2617	End	5671
Name	OJ990517_24.9A01.C39.o2.gs	Method	GENSCAN
Start	2617	End	5671
GI	none	Score	.92
Exons	2617..2742, 3996..4326, 5571..5671		
Seq. No.	15147	Seq. ID	OJ990517_24.9A01.C39
Gene No.	32193	Strand	-
Start	8682	End	9609
Name	OJ990517_24.9A01.C39.o2.np	Method	AAT/NAP
Start	8682	End	9609
GI	6063554	Score	146
Exons	8682..8852, 9484..9516, 9579..9609		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	15147	Seq. ID	OJ990517_24.9A01.C39
Gene No.	32193	Strand	-
Start	8682	End	9609
Name	OJ990517_24.9A01.C39.o2.gp	Method	AAT/GAP
Start	8842	End	9269
GI	2428185	Score	805
Exons	8842..9269		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	15147	Seq. ID	OJ990517_24.9A01.C39
Gene No.	32193	Strand	-
Start	8682	End	9609
Name	OJ990517_24.9A01.C39.o3.gp	Method	AAT/GAP
Start	9287	End	9535
GI	101153_1.R1084	Score	396
Exons	9287..9535		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32194	Strand	+
Start	1	End	2469
Name	OJ990517_24.9A01.C40.o1.np	Method	AAT/NAP
Start	1	End	2427
GI	6539586	Score	602
Exons	1..25, 1263..1470, 1585..2427		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32194	Strand	+
Start	1	End	2469
Name	OJ990517_24.9A01.C40.o1.gs	Method	GENSCAN
Start	58	End	2469
GI	none	Score	.92
Exons	58..113, 118..362, 493..590, 1276..2469		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32195	Strand	-
Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o2.np	Method	AAT/NAP
Start	3143	End	6495
GI	6498441	Score	2982
Exons	3143..3424, 3518..4915, 5102..5743, 5918..6054, 6435..6495		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32195	Strand	-
Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o4.tw	Method	TBLASTX:Wheat
Start	3152	End	3739
GI	none	Score	104
Exons	3152..3277, 3292..3489, 3464..3739, 3480..3611		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32195	Strand	-
Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o2.gs	Method	GENSCAN
Start	3296	End	6233
GI	none	Score	.66
Exons	3296..4881, 4927..5482, 6009..6233		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32195	Strand	-

Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o2.tw	Method	TBLASTX:Wheat
Start	3741	End	4136
GI	none	Score	224
Exons	3741..4136, 3755..4135		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32195	Strand	-
Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o1.tm	Method	TBLASTX:Maize
Start	3950	End	4273
GI	none	Score	217
Exons	3950..4273, 3963..4244		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32195	Strand	-
Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o6.tw	Method	TBLASTX:Wheat
Start	4490	End	4726
GI	none	Score	173
Exons	4490..4726		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32195	Strand	-
Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o2.ts	Method	TBLASTX:Soybean
Start	4544	End	5107
GI	5666795	Score	60
Exons	4544..4726, 4781..4915, 4994..5107		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32195	Strand	-
Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o3.tw	Method	TBLASTX:Wheat
Start	4781	End	5230
GI	none	Score	88
Exons	4781..4933, 4782..4922, 4989..5162, 5006..5230		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32195	Strand	-
Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o3.np	Method	AAT/NAP
Start	5250	End	6222
GI	4680183	Score	105
Exons	5250..5377, 6043..6222		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32195	Strand	-
Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o1.ts	Method	TBLASTX:Soybean
Start	5602	End	5952
GI	none	Score	71
Exons	5602..5952, 5840..5938		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40

Gene No.	32195	Strand	-
Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o1.tw	Method	TBLASTX:Wheat
Start	5629	End	6026
GI	none	Score	207
Exons	5629..5961, 5663..5962, 5964..6026, 5965..6024		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32195	Strand	-
Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o2.tm	Method	TBLASTX:Maize
Start	5704	End	6086
GI	none	Score	110
Exons	5704..5982, 5831..5962, 5964..6086		

Seq. No.	15148	Seq. ID	OJ990517_24.9A01.C40
Gene No.	32195	Strand	-
Start	3296	End	6495
Name	OJ990517_24.9A01.C40.o5.tw	Method	TBLASTX:Wheat
Start	6030	End	6204
GI	none	Score	100
Exons	6030..6203, 6091..6204		

Seq. No.	15149	Seq. ID	OJ990517_24.9A01.C41
Gene No.	32196	Strand	+
Start	1	End	1270
Name	OJ990517_24.9A01.C41.o1.np	Method	AAT/NAP
Start	1	End	279
GI	4680186	Score	282
Exons	1..279		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	15149	Seq. ID	OJ990517_24.9A01.C41
Gene No.	32196	Strand	+
Start	1	End	1270
Name	OJ990517_24.9A01.C41.o2.np	Method	AAT/NAP
Start	1	End	1270
GI	5852180	Score	242
Exons	1..104, 962..1079, 1130..1270		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32197	Strand	+
Start	2594	End	3310
Name	OJ990517_24.9A01.C42.o1.gp	Method	AAT/GAP
Start	2594	End	3310
GI	41183_1.R1084	Score	1422
Exons	2594..3310		
GI Descrip.	'4587989/gb|AAD25930.1|AF085279_3 1.0e-21 (AF085279) hypothetical Cys-3-His zinc finger protein [Arabidopsis thaliana]'		

Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32198	Strand	-
Start	2632	End	4601
Name	OJ990517_24.9A01.C42.o1.np	Method	AAT/NAP
Start	1698	End	4458

GI	4587989	Score	910
Exons	1698..1768, 2641..2892, 2941..3083, 3123..4458		
GI Descrip.	(AF085279) hypothetical Cys-3-His zinc finger protein [Arabidopsis thaliana] gi|6598933|gb|AAF18728.1|AC018721_3 (AC018721) putative CCCH-type zinc finger protein [Arabidopsis thaliana]		

Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32198	Strand	-
Start	2632	End	4601
Name	OJ990517_24.9A01.C42.o2.gs	Method	GENSCAN
Start	2632	End	4437
GI	none	Score	.99
Exons	2632..4437		

Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32198	Strand	-
Start	2632	End	4601
Name	OJ990517_24.9A01.C42.o2.gp	Method	AAT/GAP
Start	3547	End	3990
GI	uC-osroM202029c04b1	Score	851
Exons	3547..3990		
GI Descrip.	'1871192 7.0e-51 (U90439) Cys3His zinc finger protein isolog [Arabidopsis thaliana]'		

Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32198	Strand	-
Start	2632	End	4601
Name	OJ990517_24.9A01.C42.o3.gp	Method	AAT/GAP
Start	3993	End	4601
GI	none	Score	1177
Exons	3993..4601		

Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32199	Strand	-
Start	6886	End	7230
Name	OJ990517_24.9A01.C42.o3.gs	Method	GENSCAN
Start	6886	End	7230
GI	none	Score	.64
Exons	6886..7230		

Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32200	Strand	-
Start	9835	End	13153
Name	OJ990517_24.9A01.C42.o3.tm	Method	TBLASTX:Maize
Start	2365	End	2826
GI	none	Score	37
Exons	2365..2388, 2368..2388, 2452..2511, 2453..2509, 2527..2562, 2528..2563, 2602..2682, 2630..2683, 2683..2733, 2684..2734, 2749..2826, 2750..2824		

Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32200	Strand	-
Start	9835	End	13153
Name	OJ990517_24.9A01.C42.o1.ts	Method	TBLASTX:Soybean
Start	2633	End	3874
GI	none	Score	41

Exons	2633..2656, 2660..2767, 2692..2766, 2722..2874, 2786..2875, 2920..3060, 2921..2998, 3124..3168, 3454..3645, 3470..3646, 3646..3867, 3647..3874		
Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32200	Strand	-
Start	9835	End	13153
Name	OJ990517_24.9A01.C42.o2.tm	Method	TBLASTX:Maize
Start	2947	End	3249
GI	none	Score	121
Exons	2947..3033, 2951..3034, 2951..3034, 3034..3069, 3035..3070, 3070..3210, 3071..3211, 3229..3249		
Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32200	Strand	-
Start	9835	End	13153
Name	OJ990517_24.9A01.C42.o1.tm	Method	TBLASTX:Maize
Start	3259	End	3874
GI	none	Score	50
Exons	3259..3321, 3266..3292, 3410..3874, 3412..3873		
Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32200	Strand	-
Start	9835	End	13153
Name	OJ990517_24.9A01.C42.o1.tw	Method	TBLASTX:Wheat
Start	3439	End	3864
GI	none	Score	198
Exons	3439..3642, 3470..3640, 3649..3864, 3653..3835		
Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32200	Strand	-
Start	9835	End	13153
Name	OJ990517_24.9A01.C42.o1.tc	Method	TBLASTX:Cress
Start	3442	End	3861
GI	none	Score	171
Exons	3442..3645, 3446..3646, 3641..3859, 3646..3861		
Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32200	Strand	-
Start	9835	End	13153
Name	OJ990517_24.9A01.C42.o2.tw	Method	TBLASTX:Wheat
Start	4168	End	4441
GI	none	Score	183
Exons	4168..4278, 4175..4441, 4402..4440		
Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32200	Strand	-
Start	9835	End	13153
Name	OJ990517_24.9A01.C42.o5.gs	Method	GENSCAN
Start	9835	End	13153
GI	none	Score	.6
Exons	9835..9923, 9965..10109, 10128..10175, 12998..13153		
Seq. No.	15150	Seq. ID	OJ990517_24.9A01.C42
Gene No.	32200	Strand	-
Start	9835	End	13153
Name	OJ990517_24.9A01.C42.o4.gp	Method	AAT/GAP

Start	12768	End	13107
GI	LIB3431-040-P1-K2-E7	Score	625
Exons	12768..13107		
GI Descrip.	'3264610/gb|AF061511|AF061511 1.0e-10 Zea mays seven in absentia homolog mRNA, partial cds'		

Seq. No.	15151	Seq. ID	OJ990517_24.9A01.C44
Gene No.	32201	Strand	-
Start	1	End	256
Name	OJ990517_24.9A01.C44.o1.np	Method	AAT/NAP
Start	1	End	256
GI	2498930	Score	55
Exons	1..30, 137..256		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi|1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	15151	Seq. ID	OJ990517_24.9A01.C44
Gene No.	32201	Strand	-
Start	1	End	256
Name	OJ990517_24.9A01.C44.o1.gs	Method	GENSCAN
Start	137	End	196
GI	none	Score	.99
Exons	137..196		

Seq. No.	15152	Seq. ID	OJ990517_24.9A01.C45
Gene No.	32202	Strand	+
Start	310	End	931
Name	OJ990517_24.9A01.C45.o1.gs	Method	GENSCAN
Start	310	End	931
GI	none	Score	.69
Exons	310..407, 527..931		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32203	Strand	+
Start	134	End	302
Name	OJ990517_24.9A01.C46.o1.gs	Method	GENSCAN
Start	134	End	302
GI	none	Score	1
Exons	134..302		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32204	Strand	-
Start	805	End	5370
Name	OJ990517_24.9A01.C46.o2.gs	Method	GENSCAN
Start	805	End	5370
GI	none	Score	.68
Exons	805..3063, 3103..3863, 4173..5370		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32204	Strand	-
Start	805	End	5370
Name	OJ990517_24.9A01.C46.o1.np	Method	AAT/NAP
Start	808	End	5370
GI	4680179	Score	7662
Exons	808..5370		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o7.tm	Method	TBLASTX:Maize
Start	832	End	1029
GI	none	Score	190
Exons	832..1029		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o6.tw	Method	TBLASTX:Wheat
Start	853	End	1183
GI	none	Score	63
Exons	853..1182, 874..1035, 983..1093, 1078..1158, 1115..1183		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o1.tm	Method	TBLASTX:Maize
Start	1033	End	1632
GI	none	Score	243
Exons	1033..1473, 1046..1471, 1471..1632, 1478..1624		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o1.tw	Method	TBLASTX:Wheat
Start	1186	End	1812
GI	none	Score	350
Exons	1186..1812, 1187..1810		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o4.tm	Method	TBLASTX:Maize
Start	1681	End	1972
GI	none	Score	158
Exons	1681..1971, 1685..1972		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o2.ts	Method	TBLASTX:Soybean
Start	1771	End	2031
GI	none	Score	119
Exons	1771..2031, 1772..2026		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o1.tc	Method	TBLASTX:Cress
Start	1795	End	2112
GI	none	Score	62
Exons	1795..1938, 1798..1893, 1939..2112		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46

Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o3.tw	Method	TBLASTX:Wheat
Start	1819	End	2298
GI	none	Score	183
Exons	1819..2298, 1820..2074, 1852..2265		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o2.tw	Method	TBLASTX:Wheat
Start	2302	End	2811
GI	none	Score	231
Exons	2302..2811, 2386..2733, 2468..2779		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o2.tm	Method	TBLASTX:Maize
Start	2374	End	2739
GI	none	Score	148
Exons	2374..2685, 2376..2687, 2386..2739, 2471..2737		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o3.ts	Method	TBLASTX:Soybean
Start	2560	End	2805
GI	none	Score	202
Exons	2560..2805		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o3.tm	Method	TBLASTX:Maize
Start	2776	End	3276
GI	none	Score	43
Exons	2776..3111, 2819..2869, 2894..3025, 3097..3276		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o5.tw	Method	TBLASTX:Wheat
Start	2812	End	3114
GI	none	Score	232
Exons	2812..3114, 2813..3073, 3012..3113		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o1.ts	Method	TBLASTX:Soybean
Start	2827	End	3222
GI	none	Score	162
Exons	2827..3186, 2828..3070, 3106..3186, 3178..3222, 3190..3222		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-

Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o4.tw	Method	TBLASTX:Wheat
Start	3163	End	3645
GI	none	Score	187
Exons	3163..3645, 3172..3534, 3344..3541		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o5.tm	Method	TBLASTX:Maize
Start	3344	End	3633
GI	none	Score	165
Exons	3344..3535, 3346..3633		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o8.tw	Method	TBLASTX:Wheat
Start	3808	End	4224
GI	none	Score	94
Exons	3808..3993, 3821..3964, 4015..4224, 4076..4174		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o6.tm	Method	TBLASTX:Maize
Start	4531	End	4863
GI	none	Score	105
Exons	4531..4863, 4579..4863, 4676..4846		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o7.tw	Method	TBLASTX:Wheat
Start	4744	End	5103
GI	none	Score	96
Exons	4744..5103, 4745..4978, 5003..5077		

Seq. No.	15153	Seq. ID	OJ990517_24.9A01.C46
Gene No.	32205	Strand	-
Start	5627	End	6515
Name	OJ990517_24.9A01.C46.o2.np	Method	AAT/NAP
Start	5627	End	6515
GI	5042448	Score	1259
Exons	5627..5913, 5944..6515		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	15154	Seq. ID	OJ990427_20.9A01.C1
Gene No.	32206	Strand	+
Start	1	End	429
Name	OJ990427_20.9A01.C1.o1.np	Method	AAT/NAP
Start	1	End	429
GI	99755	Score	420
Exons	1..429		
GI Descrip.	RNA-directed DNA polymerase (EC 2.7.7.49) - Arabidopsis thaliana retrotransposon Ta1-1 (fragment) gi|16356|emb|CAA37917| (X53973)		

reverse transcriptase [Arabidopsis thaliana]

Seq. No.	15154	Seq. ID	OJ990427_20.9A01.C1
Gene No.	32206	Strand	+
Start	1	End	429
Name	OJ990427_20.9A01.C1.o1.tm	Method	TBLASTX:Maize
Start	1	End	420
GI	none	Score	561
Exons	1..420, 3..419		

Seq. No.	15154	Seq. ID	OJ990427_20.9A01.C1
Gene No.	32206	Strand	+
Start	1	End	429
Name	OJ990427_20.9A01.C1.o1.tw	Method	TBLASTX:Wheat
Start	3	End	393
GI	none	Score	140
Exons	3..155, 4..189, 193..393, 204..392		

Seq. No.	15154	Seq. ID	OJ990427_20.9A01.C1
Gene No.	32206	Strand	+
Start	1	End	429
Name	OJ990427_20.9A01.C1.o1.ts	Method	TBLASTX:Soybean
Start	19	End	417
GI	none	Score	284
Exons	19..294, 21..302, 306..410, 307..417		

Seq. No.	15154	Seq. ID	OJ990427_20.9A01.C1
Gene No.	32206	Strand	+
Start	1	End	429
Name	OJ990427_20.9A01.C1.o1.gs	Method	GENSCAN
Start	115	End	310
GI	none	Score	.7
Exons	115..310		

Seq. No.	15155	Seq. ID	OJ990427_20.9A01.C3
Gene No.	32207	Strand	-
Start	2035	End	3328
Name	OJ990427_20.9A01.C3.o1.gs	Method	GENSCAN
Start	2035	End	3328
GI	none	Score	.72
Exons	2035..2258, 3159..3328		

Seq. No.	15156	Seq. ID	OJ990427_20.9A01.C4
Gene No.	32208	Strand	+
Start	1765	End	2886
Name	OJ990427_20.9A01.C4.o1.gs	Method	GENSCAN
Start	1765	End	2886
GI	none	Score	.62
Exons	1765..2019, 2840..2886		

Seq. No.	15157	Seq. ID	OJ990427_20.9A01.C5
Gene No.	32209	Strand	+
Start	1	End	4134
Name	OJ990427_20.9A01.C5.o1.np	Method	AAT/NAP
Start	1	End	4134
GI	2129478	Score	150
Exons	1..223, 426..656, 3205..3296, 4061..4134		

GI Descrip.	chitinase (EC 3.2.1.14) precursor - beet gi|488731|emb|CAA55883| (X79301) chitinase [Beta vulgaris] gi|829258|emb|CAA56946| (X81056) Chitinase [Beta vulgaris]		
Seq. No.	15157	Seq. ID	OJ990427_20.9A01.C5
Gene No.	32209	Strand	+
Start	1	End	4134
Name	OJ990427_20.9A01.C5.o1.gs	Method	GENSCAN
Start	220	End	2253
GI	none	Score	.52
Exons	220..505, 1004..1118, 2230..2253		
Seq. No.	15158	Seq. ID	OJ990427_20.9A01.C6
Gene No.	32210	Strand	-
Start	574	End	6884
Name	OJ990427_20.9A01.C6.o1.gs	Method	GENSCAN
Start	574	End	6884
GI	none	Score	.61
Exons	574..894, 1002..1051, 1763..1981, 2427..2526, 3138..3243, 4173..4212, 5381..5618, 6090..6166, 6584..6633, 6757..6884		
Seq. No.	15158	Seq. ID	OJ990427_20.9A01.C6
Gene No.	32210	Strand	-
Start	574	End	6884
Name	OJ990427_20.9A01.C6.o1.gp	Method	AAT/GAP
Start	578	End	1090
GI	uC-osrocyp027f12a1	Score	699
Exons	578..894, 994..1090		
GI Descrip.	'4567304/gb|AAD23715.1|AC005956_4 4.0e-21 (AC005956) unknown protein [Arabidopsis thaliana]'		
Seq. No.	15159	Seq. ID	OJ990427_20.9A01.C7
Gene No.	32211	Strand	+
Start	1309	End	1388
Name	OJ990427_20.9A01.C7.o1.gs	Method	GENSCAN
Start	1309	End	1388
GI	none	Score	.83
Exons	1309..1388		
Seq. No.	15159	Seq. ID	OJ990427_20.9A01.C7
Gene No.	32212	Strand	+
Start	3395	End	8632
Name	OJ990427_20.9A01.C7.o2.gs	Method	GENSCAN
Start	3395	End	8632
GI	none	Score	.53
Exons	3395..3457, 3468..3616, 3884..4054, 4140..4241, 4271..4304, 4400..4477, 4970..5112, 6895..7018, 7436..7623, 7800..8157, 8177..8632		
Seq. No.	15159	Seq. ID	OJ990427_20.9A01.C7
Gene No.	32213	Strand	+
Start	9150	End	18469
Name	OJ990427_20.9A01.C7.o3.gs	Method	GENSCAN
Start	9150	End	18469
GI	none	Score	.48
Exons	9150..9216, 9998..10140, 10203..10271, 10921..11003, 12323..12356, 13492..13551, 16432..16651, 18315..18469		

Seq. No.	15159	Seq. ID	OJ990427_20.9A01.C7
Gene No.	32214	Strand	-
Start	6752	End	8874
Name	OJ990427_20.9A01.C7.o1.np	Method	AAT/NAP
Start	6752	End	8874
GI	6063554	Score	188
Exons	6752..6922, 7968..8015, 8100..8299, 8412..8663, 8853..8874		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	15159	Seq. ID	OJ990427_20.9A01.C7
Gene No.	32214	Strand	-
Start	6752	End	8874
Name	OJ990427_20.9A01.C7.o1.gp	Method	AAT/GAP
Start	6910	End	7342
GI	2428185	Score	680
Exons	6910..7342		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32215	Strand	+
Start	8505	End	10332
Name	OJ990427_20.9A01.C8.o2.np	Method	AAT/NAP
Start	8505	End	10332
GI	6907086	Score	1133
Exons	8505..9268, 9329..9584, 9837..9940, 10051..10332		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32216	Strand	+
Start	17453	End	19651
Name	OJ990427_20.9A01.C8.o3.np	Method	AAT/NAP
Start	17453	End	19651
GI	6539553	Score	3805
Exons	17453..19651		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32217	Strand	-
Start	416	End	1987
Name	OJ990427_20.9A01.C8.o1.gs	Method	GENSCAN
Start	416	End	1987
GI	none	Score	.81
Exons	416..578, 1258..1375, 1830..1987		

Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32218	Strand	-
Start	6535	End	7042
Name	OJ990427_20.9A01.C8.o1.gp	Method	AAT/GAP
Start	6535	End	7042
GI	38782_1.R1084	Score	817

Exons	6535..7042		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		
Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32219	Strand	-
Start	13362	End	13565
Name	OJ990427_20.9A01.C8.o4.gs	Method	GENSCAN
Start	13362	End	13565
GI	none	Score	.63
Exons	13362..13565		
Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32220	Strand	
Start	17447	End	17895
Name	OJ990427_20.9A01.C8.o2.tw	Method	TBLASTX:Wheat
Start	17447	End	17833
GI	none	Score	349
Exons	17447..17833, 17458..17832		
Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32220	Strand	
Start	17447	End	17895
Name	OJ990427_20.9A01.C8.o2.tm	Method	TBLASTX:Maize
Start	17582	End	17895
GI	none	Score	361
Exons	17582..17893, 17590..17895		
Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32221	Strand	
Start	18394	End	18716
Name	OJ990427_20.9A01.C8.o1.tm	Method	TBLASTX:Maize
Start	18394	End	18716
GI	none	Score	263
Exons	18394..18648, 18401..18715, 18421..18714, 18549..18716		
Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32222	Strand	
Start	18743	End	19651
Name	OJ990427_20.9A01.C8.o2.ts	Method	TBLASTX:Soybean
Start	18743	End	19129
GI	none	Score	85
Exons	18743..18898, 18881..19129		
Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32222	Strand	
Start	18743	End	19651
Name	OJ990427_20.9A01.C8.o3.tm	Method	TBLASTX:Maize
Start	18917	End	19351
GI	none	Score	303
Exons	18917..19351, 19126..19326		
Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32222	Strand	
Start	18743	End	19651
Name	OJ990427_20.9A01.C8.o3.tw	Method	TBLASTX:Wheat
Start	18995	End	19186

GI	none	Score	275
Exons	18995..19186, 18995..19186		

Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32222	Strand	
Start	18743	End	19651
Name	OJ990427_20.9A01.C8.o1.ts	Method	TBLASTX:Soybean
Start	19139	End	19537
GI	none	Score	197
Exons	19139..19363, 19147..19317, 19364..19537, 19372..19410		

Seq. No.	15160	Seq. ID	OJ990427_20.9A01.C8
Gene No.	32222	Strand	
Start	18743	End	19651
Name	OJ990427_20.9A01.C8.o1.tw	Method	TBLASTX:Wheat
Start	19187	End	19651
GI	none	Score	623
Exons	19187..19651, 19195..19650		

Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32223	Strand	+
Start	1	End	1537
Name	OJ990427_20.9A01.C9.o1.np	Method	AAT/NAP
Start	1	End	1537
GI	6539553	Score	2574
Exons	1..1537		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32224	Strand	+
Start	8986	End	18795
Name	OJ990427_20.9A01.C9.o4.gs	Method	GENSCAN
Start	8986	End	17861
GI	none	Score	.45
Exons	8986..9151, 11312..11373, 12576..12694, 13106..13425, 14231..14343, 15050..15249, 15752..16060, 16495..17182, 17261..17563, 17628..17861		

Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32224	Strand	+
Start	8986	End	18795
Name	OJ990427_20.9A01.C9.o1.gp	Method	AAT/GAP
Start	11260	End	11512
GI	3106573	Score	299
Exons	11260..11512		
GI Descrip.	5091496/dbj|AB023482.2|AB023482 7.0e-17 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence		

Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32224	Strand	+
Start	8986	End	18795
Name	OJ990427_20.9A01.C9.o3.np	Method	AAT/NAP
Start	13355	End	18795
GI	543908	Score	68

Exons	13355..13408, 16556..16654, 18762..18795		
GI Descrip.	CELLULAR NUCLEIC ACID BINDING PROTEIN HOMOLOG gi|254734|bbs|112403 (S45038) cellular nucleic acid binding protein homolog=byr3 [Schizosaccharomyces pombe, Peptide, 179 aa] [Schizosaccharomyces pombe] gi|1204164|emb|CAA93542.1| (Z69725) cellular nucleic acid binding protein homolog [Schizosaccharomyces pombe]		
Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32225	Strand	-
Start	4441	End	9244
Name	OJ990427_20.9A01.C9.o3.gs	Method	GENSCAN
Start	4441	End	7419
GI	none	Score	.6
Exons	4441..4596, 5343..5836, 7095..7196, 7383..7419		
Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32225	Strand	-
Start	4441	End	9244
Name	OJ990427_20.9A01.C9.o2.np	Method	AAT/NAP
Start	5313	End	9244
GI	4680203	Score	439
Exons	5313..6237, 9220..9244		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		
Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32226	Strand	-
Start	18533	End	18766
Name	OJ990427_20.9A01.C9.o1.ts	Method	TBLASTX:Soybean
Start	41	End	505
GI	5509260	Score	383
Exons	41..505, 142..210, 259..354, 427..486		
GI Descrip.	-		
Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32226	Strand	-
Start	18533	End	18766
Name	OJ990427_20.9A01.C9.o1.tc	Method	TBLASTX:Cress
Start	134	End	394
GI	none	Score	286
Exons	134..394		
Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32226	Strand	-
Start	18533	End	18766
Name	OJ990427_20.9A01.C9.o1.tm	Method	TBLASTX:Maize
Start	175	End	640
GI	none	Score	361
Exons	175..357, 176..640, 311..493, 427..537		
Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32226	Strand	-
Start	18533	End	18766
Name	OJ990427_20.9A01.C9.o2.tw	Method	TBLASTX:Wheat
Start	176	End	721
GI	none	Score	319
Exons	176..520, 323..496, 515..721		

Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32226	Strand	-
Start	18533	End	18766
Name	OJ990427_20.9A01.C9.o2.ts	Method	TBLASTX:Soybean
Start	574	End	922
GI	none	Score	309
Exons	574..774, 575..919, 869..922		

Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32226	Strand	-
Start	18533	End	18766
Name	OJ990427_20.9A01.C9.o2.tm	Method	TBLASTX:Maize
Start	730	End	1069
GI	none	Score	305
Exons	730..1068, 746..1069		

Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32226	Strand	-
Start	18533	End	18766
Name	OJ990427_20.9A01.C9.o3.ts	Method	TBLASTX:Soybean
Start	923	End	1270
GI	none	Score	100
Exons	923..1045, 1064..1270		

Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32226	Strand	-
Start	18533	End	18766
Name	OJ990427_20.9A01.C9.o1.tw	Method	TBLASTX:Wheat
Start	925	End	1401
GI	none	Score	102
Exons	925..996, 926..1006, 927..1007, 931..1014, 1014..1322, 1016..1363, 1016..1366, 1033..1401		

Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32226	Strand	-
Start	18533	End	18766
Name	OJ990427_20.9A01.C9.o3.tw	Method	TBLASTX:Wheat
Start	5550	End	6208
GI	none	Score	117
Exons	5550..5654, 5667..5711, 5715..5768, 5798..5842, 5871..6014, 6017..6208		

Seq. No.	15161	Seq. ID	OJ990427_20.9A01.C9
Gene No.	32226	Strand	-
Start	18533	End	18766
Name	OJ990427_20.9A01.C9.o5.gs	Method	GENSCAN
Start	18533	End	18766
GI	none	Score	.53
Exons	18533..18766		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32227	Strand	+
Start	335	End	3733
Name	OJ990427_20.9A01.C10.o1.gs	Method	GENSCAN
Start	335	End	3733
GI	none	Score	.55

Exons	335..640, 998..2234, 2311..2389, 2450..2646, 2802..2861, 2929..3042, 3119..3733		
Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32228	Strand	+
Start	9495	End	11116
Name	OJ990427_20.9A01.C10.o4.np	Method	AAT/NAP
Start	9495	End	11116
GI	4539658	Score	226
Exons	9495..9723, 10683..10890, 10932..11116		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32228	Strand	+
Start	9495	End	11116
Name	OJ990427_20.9A01.C10.o5.np	Method	AAT/NAP
Start	9927	End	11116
GI	4539658	Score	225
Exons	9927..9950, 10757..10890, 10932..11116		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32229	Strand	-
Start	4050	End	11824
Name	OJ990427_20.9A01.C10.o1.np	Method	AAT/NAP
Start	3991	End	10215
GI	4544372	Score	1120
Exons	3991..5523, 5629..6029, 6090..7138, 10130..10215		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32229	Strand	-
Start	4050	End	11824
Name	OJ990427_20.9A01.C10.o2.gs	Method	GENSCAN
Start	4050	End	7879
GI	none	Score	.6
Exons	4050..4408, 4995..5763, 6000..6033, 6164..6802, 6854..7249, 7365..7395, 7486..7879		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32229	Strand	-
Start	4050	End	11824
Name	OJ990427_20.9A01.C10.o3.np	Method	AAT/NAP
Start	4441	End	11122
GI	5922631	Score	742
Exons	4441..6443, 11095..11122		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativ		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32229	Strand	-
Start	4050	End	11824
Name	OJ990427_20.9A01.C10.o3.gs	Method	GENSCAN
Start	8798	End	11824
GI	none	Score	.42
Exons	8798..9375, 9411..9900, 9958..10160, 10506..10650, 11440..11578, 11604..11824		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o4.tw	Method	TBLASTX:Wheat
Start	4030	End	4403
GI	none	Score	90
Exons	4030..4401, 4056..4403		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o3.tw	Method	TBLASTX:Wheat
Start	4411	End	4777
GI	none	Score	57
Exons	4411..4776, 4694..4777		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o3.ts	Method	TBLASTX:Soybean
Start	4534	End	4932
GI	none	Score	77
Exons	4534..4932, 4712..4828		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o3.tm	Method	TBLASTX:Maize
Start	4555	End	4935
GI	none	Score	86
Exons	4555..4779, 4777..4935		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o2.tw	Method	TBLASTX:Wheat
Start	5332	End	5751
GI	none	Score	43
Exons	5332..5622, 5417..5524, 5546..5611, 5653..5751		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o1.ts	Method	TBLASTX:Soybean
Start	5384	End	5796
GI	none	Score	122
Exons	5384..5638, 5386..5637, 5659..5796, 5663..5794		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o2.ts	Method	TBLASTX:Soybean
Start	5947	End	6417
GI	none	Score	84
Exons	5947..6135, 5951..6091, 6136..6417, 6155..6379, 6169..6381		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o5.tw	Method	TBLASTX:Wheat
Start	6043	End	6432
GI	none	Score	90
Exons	6043..6135, 6097..6432, 6101..6415		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o1.tm	Method	TBLASTX:Maize
Start	6103	End	6564
GI	none	Score	200
Exons	6103..6564, 6104..6415, 6259..6564		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o1.tw	Method	TBLASTX:Wheat
Start	6434	End	6837
GI	none	Score	274
Exons	6434..6649, 6454..6786, 6482..6778, 6781..6837, 6791..6832		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o2.tm	Method	TBLASTX:Maize
Start	6565	End	6783
GI	none	Score	197
Exons	6565..6783, 6566..6778		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o4.ts	Method	TBLASTX:Soybean
Start	7409	End	7747
GI	none	Score	205
Exons	7409..7747		

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o4.tm	Method	TBLASTX:Maize
Start	10666	End	11407
GI	none	Score	109
Exons	10666..10788, 10667..10786, 10668..10790, 10680..10796, 10768..10905, 10781..10906, 10784..10909, 10794..10910, 11164..11283, 11164..11292, 11177..11293, 11265..11402,		

11278..11382, 11281..11406, 11286..11390, 11291..11407

Seq. No.	15162	Seq. ID	OJ990427_20.9A01.C10
Gene No.	32230	Strand	-
Start	13288	End	13422
Name	OJ990427_20.9A01.C10.o4.gs	Method	GENSCAN
Start	13288	End	13422
GI	none	Score	.71
Exons	13288..13422		

Seq. No.	15163	Seq. ID	OJ990427_20.9A01.C11
Gene No.	32231	Strand	+
Start	466	End	846
Name	OJ990427_20.9A01.C11.o1.tm	Method	TBLASTX:Maize
Start	59	End	561
GI	none	Score	215
Exons	59..322, 76..318, 346..540, 532..561		

Seq. No.	15163	Seq. ID	OJ990427_20.9A01.C11
Gene No.	32231	Strand	+
Start	466	End	846
Name	OJ990427_20.9A01.C11.o1.ts	Method	TBLASTX:Soybean
Start	164	End	710
GI	none	Score	113
Exons	164..325, 340..495, 348..464, 457..594, 591..710		

Seq. No.	15163	Seq. ID	OJ990427_20.9A01.C11
Gene No.	32231	Strand	+
Start	466	End	846
Name	OJ990427_20.9A01.C11.o1.tw	Method	TBLASTX:Wheat
Start	349	End	846
GI	none	Score	231
Exons	349..594, 351..473, 558..593, 591..743, 745..846		

Seq. No.	15163	Seq. ID	OJ990427_20.9A01.C11
Gene No.	32231	Strand	+
Start	466	End	846
Name	OJ990427_20.9A01.C11.o1.gs	Method	GENSCAN
Start	466	End	575
GI	none	Score	.43
Exons	466..575		

Seq. No.	15164	Seq. ID	OJ990427_20.9A01.C12
Gene No.	32232	Strand	+
Start	1468	End	2112
Name	OJ990427_20.9A01.C12.o1.gs	Method	GENSCAN
Start	1468	End	2079
GI	none	Score	.67
Exons	1468..2079		

Seq. No.	15164	Seq. ID	OJ990427_20.9A01.C12
Gene No.	32232	Strand	+
Start	1468	End	2112
Name	OJ990427_20.9A01.C12.o1.tw	Method	TBLASTX:Wheat
Start	1819	End	2112
GI	none	Score	120
Exons	1819..1962, 1841..1963, 1842..1979, 1948..2112, 1965..2093		

Seq. No.	15165	Seq. ID	OJ990427_20.9A01.C13
Gene No.	32233	Strand	+
Start	1	End	2425
Name	OJ990427_20.9A01.C13.o1.np	Method	AAT/NAP
Start	1	End	2425
GI	4388818	Score	1690
Exons	1..2425		
GI Descrip.	(AC006528) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	15165	Seq. ID	OJ990427_20.9A01.C13
Gene No.	32233	Strand	+
Start	1	End	2425
Name	OJ990427_20.9A01.C13.o2.tw	Method	TBLASTX:Wheat
Start	721	End	1308
GI	none	Score	290
Exons	721..1095, 729..1094, 1114..1185, 1204..1308		

Seq. No.	15165	Seq. ID	OJ990427_20.9A01.C13
Gene No.	32233	Strand	+
Start	1	End	2425
Name	OJ990427_20.9A01.C13.o2.tm	Method	TBLASTX:Maize
Start	862	End	1266
GI	none	Score	290
Exons	862..1185, 864..1007, 1201..1266		

Seq. No.	15165	Seq. ID	OJ990427_20.9A01.C13
Gene No.	32233	Strand	+
Start	1	End	2425
Name	OJ990427_20.9A01.C13.o2.ts	Method	TBLASTX:Soybean
Start	877	End	1329
GI	none	Score	255
Exons	877..1206, 1035..1205, 1191..1328, 1192..1329		

Seq. No.	15165	Seq. ID	OJ990427_20.9A01.C13
Gene No.	32233	Strand	+
Start	1	End	2425
Name	OJ990427_20.9A01.C13.o1.tc	Method	TBLASTX:Cress
Start	910	End	1373
GI	none	Score	166
Exons	910..1188, 1204..1371, 1206..1373		

Seq. No.	15165	Seq. ID	OJ990427_20.9A01.C13
Gene No.	32233	Strand	+
Start	1	End	2425
Name	OJ990427_20.9A01.C13.o1.tw	Method	TBLASTX:Wheat
Start	1578	End	2006
GI	none	Score	520
Exons	1578..2006, 1588..2004, 1845..2006		

Seq. No.	15165	Seq. ID	OJ990427_20.9A01.C13
Gene No.	32233	Strand	+
Start	1	End	2425
Name	OJ990427_20.9A01.C13.o2.tc	Method	TBLASTX:Cress
Start	1780	End	2052
GI	none	Score	43

Exons	1780..1818, 1846..2052, 1849..1923, 1851..2018		
Seq. No.	15165	Seq. ID	OJ990427_20.9A01.C13
Gene No.	32233	Strand	+
Start	1	End	2425
Name	OJ990427_20.9A01.C13.o1.tm	Method	TBLASTX:Maize
Start	1848	End	2283
GI	none	Score	320
Exons	1848..2141, 1852..2283		
Seq. No.	15165	Seq. ID	OJ990427_20.9A01.C13
Gene No.	32233	Strand	+
Start	1	End	2425
Name	OJ990427_20.9A01.C13.o1.ts	Method	TBLASTX:Soybean
Start	1870	End	2259
GI	none	Score	394
Exons	1870..2259, 1881..2162, 2008..2211		
Seq. No.	15165	Seq. ID	OJ990427_20.9A01.C13
Gene No.	32233	Strand	+
Start	1	End	2425
Name	OJ990427_20.9A01.C13.o3.tw	Method	TBLASTX:Wheat
Start	2008	End	2424
GI	none	Score	177
Exons	2008..2178, 2008..2154, 2194..2424		
Seq. No.	15166	Seq. ID	OJ990517_12.9A29.C1
Gene No.	32234	Strand	+
Start	167	End	684
Name	OJ990517_12.9A29.C1.o1.tm	Method	TBLASTX:Maize
Start	164	End	684
GI	none	Score	102
Exons	164..244, 165..257, 356..448, 357..443, 358..447, 538..684, 546..680		
Seq. No.	15166	Seq. ID	OJ990517_12.9A29.C1
Gene No.	32234	Strand	+
Start	167	End	684
Name	OJ990517_12.9A29.C1.o1.gs	Method	GENSCAN
Start	167	End	444
GI	none	Score	.73
Exons	167..242, 359..444		
Seq. No.	15167	Seq. ID	OJ990517_12.9A29.C2
Gene No.	32235	Strand	+
Start	71	End	511
Name	OJ990517_12.9A29.C2.o1.gs	Method	GENSCAN
Start	71	End	511
GI	none	Score	.64
Exons	71..511		
Seq. No.	15167	Seq. ID	OJ990517_12.9A29.C2
Gene No.	32236	Strand	-
Start	1	End	525
Name	OJ990517_12.9A29.C2.o1.np	Method	AAT/NAP
Start	1	End	525
GI	6498441	Score	672

Exons	1..298, 362..525		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		
Seq. No.	15167	Seq. ID	OJ990517_12.9A29.C2
Gene No.	32236	Strand	-
Start	1	End	525
Name	OJ990517_12.9A29.C2.o1.tw	Method	TBLASTX:Wheat
Start	6	End	290
GI	none	Score	223
Exons	6..290, 23..289		
Seq. No.	15167	Seq. ID	OJ990517_12.9A29.C2
Gene No.	32236	Strand	-
Start	1	End	525
Name	OJ990517_12.9A29.C2.o1.tm	Method	TBLASTX:Maize
Start	151	End	332
GI	none	Score	163
Exons	151..327, 153..332, 155..328		
Seq. No.	15168	Seq. ID	OJ990517_12.9A29.C6
Gene No.	32237	Strand	+
Start	227	End	482
Name	OJ990517_12.9A29.C6.o1.gs	Method	GENSCAN
Start	227	End	482
GI	none	Score	.88
Exons	227..482		
Seq. No.	15169	Seq. ID	OJ990517_12.9A29.C7
Gene No.	32238	Strand	+
Start	713	End	806
Name	OJ990517_12.9A29.C7.o1.gs	Method	GENSCAN
Start	713	End	806
GI	none	Score	.72
Exons	713..806		
Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32239	Strand	+
Start	748	End	3100
Name	OJ990517_12.9A29.C9.o1.gs	Method	GENSCAN
Start	748	End	2640
GI	none	Score	.87
Exons	748..798, 1123..1356, 1446..1493, 1597..1653, 1736..1837, 2169..2234, 2353..2454, 2527..2640		
Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32239	Strand	+
Start	748	End	3100
Name	OJ990517_12.9A29.C9.o1.gp	Method	AAT/GAP
Start	2158	End	3100
GI	13803_1.R1084	Score	953
Exons	2158..2234, 2353..2454, 2527..2649, 2849..3100		
GI Descrip.	'3935138 9.0e-30 (AC005106) T25N20.2 [Arabidopsis thaliana]'		
Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32240	Strand	+

Start	8888	End	9475
Name	OJ990517_12.9A29.C9.o3.gs	Method	GENSCAN
Start	8888	End	9475
GI	none	Score	.79
Exons	8888..9053, 9144..9276, 9310..9475		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32241	Strand	+
Start	16326	End	16709
Name	OJ990517_12.9A29.C9.o5.gs	Method	GENSCAN
Start	16326	End	16709
GI	none	Score	.99
Exons	16326..16709		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32242	Strand	-
Start	3354	End	8566
Name	OJ990517_12.9A29.C9.o2.gs	Method	GENSCAN
Start	3354	End	8566
GI	none	Score	.88
Exons	3354..3406, 3420..3495, 3605..3694, 3752..3828, 3932..4137, 5140..5270, 5637..5668, 5832..5944, 6196..6500, 6603..6688, 6805..6880, 7549..7698, 8522..8566		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32242	Strand	-
Start	3354	End	8566
Name	OJ990517_12.9A29.C9.o2.gp	Method	AAT/GAP
Start	5230	End	6387
GI	none	Score	651
Exons	5230..5270, 5637..5668, 5832..5944, 6196..6387		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32243	Strand	-
Start	10231	End	15689
Name	OJ990517_12.9A29.C9.o4.gs	Method	GENSCAN
Start	10231	End	15689
GI	none	Score	.93
Exons	10231..10335, 10751..10960, 11050..11556, 11817..12038, 12509..12639, 13192..14200, 14285..14359, 14450..14521, 14608..14783, 14949..15101, 15194..15689		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32243	Strand	-
Start	10231	End	15689
Name	OJ990517_12.9A29.C9.o1.np	Method	AAT/NAP
Start	10698	End	14526
GI	2443887	Score	1459
Exons	10698..10960, 11050..11565, 11856..12038, 12509..12639, 13192..13883, 14010..14200, 14285..14359, 14450..14526		
GI Descrip.	(AC002294) Similar to transcription factor gb|Z46606|1658307 and others [Arabidopsis thaliana]		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o2.tm	Method	TBLASTX:Maize

Start	1	End	3045
GI	none	Score	152
Exons	1..105, 1..93, 2..142, 1121..1306, 1121..1300, 1287..1355, 1303..1365, 1305..1355, 1315..1359, 1440..1511, 1448..1492, 1599..1649, 1599..1649, 1600..1653, 1600..1653, 1723..1794, 1731..1829, 1733..1834, 2166..2234, 2168..2227, 2171..2251, 2172..2237, 2344..2454, 2352..2453, 2521..2640, 2526..2639, 2528..2650, 2528..2644, 2867..2947, 2868..2948, 2930..2956, 2931..2954, 3013..3045		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o2.ts	Method	TBLASTX:Soybean
Start	1285	End	2628
GI	none	Score	42
Exons	1285..1350, 1287..1352, 1315..1353, 1440..1496, 1448..1501, 1449..1511, 1596..1649, 1597..1695, 1612..1653, 1733..1834, 1735..1794, 1778..1843, 2166..2240, 2337..2453, 2344..2454, 2517..2621, 2521..2628, 2526..2621		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o3.tc	Method	TBLASTX:Cress
Start	1449	End	2628
GI	none	Score	65
Exons	1449..1511, 1451..1495, 1596..1652, 1597..1695, 1730..1834, 1733..1834, 1744..1842, 1746..1835, 2166..2237, 2337..2438, 2341..2454, 2344..2454, 2521..2628, 2526..2621		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o3.tm	Method	TBLASTX:Maize
Start	3356	End	5271
GI	none	Score	69
Exons	3356..3496, 3388..3495, 3397..3498, 3602..3664, 3606..3662, 3747..3836, 3752..3838, 3752..3829, 3928..4002, 3930..4004, 4057..4134, 4068..4133, 4271..4327, 4272..4349, 4276..4341, 4460..4498, 4462..4527, 4644..4793, 4704..4790, 4705..4794, 5137..5202, 5137..5202, 5139..5216, 5142..5222, 5214..5270, 5215..5271, 5227..5271		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o1.tw	Method	TBLASTX:Wheat
Start	4035	End	4506
GI	none	Score	117
Exons	4035..4160, 4039..4149, 4176..4232, 4179..4232, 4214..4342, 4263..4346, 4264..4347, 4276..4350, 4461..4502, 4462..4506, 4477..4506		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372

Name	OJ990517_12.9A29.C9.o5.tm	Method	TBLASTX:Maize
Start	6304	End	7557
GI	none	Score	227
Exons	6304..6501, 6325..6501, 6375..6509, 6599..6691, 6600..6689, 6602..6691, 6790..6882, 6796..6882, 6803..6883, 7450..7557, 7457..7531		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o1.tm	Method	TBLASTX:Maize
Start	10231	End	12640
GI	none	Score	125
Exons	10231..10350, 10232..10393, 10749..10961, 10749..10961, 10751..10963, 10819..10962, 10999..11292, 11047..11295, 11048..11308, 11049..11300, 11353..11556, 11381..11557, 11382..11573, 11455..11574, 11816..11899, 11817..12035, 11829..12032, 11939..12040, 12503..12640, 12509..12640		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o2.tc	Method	TBLASTX:Cress
Start	10231	End	10963
GI	none	Score	110
Exons	10231..10350, 10241..10351, 10748..10927, 10751..10963, 10755..10961		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o3.ts	Method	TBLASTX:Soybean
Start	10847	End	11564
GI	none	Score	68
Exons	10847..10975, 10850..10924, 10854..10961, 10870..10965, 11047..11199, 11048..11197, 11383..11559, 11417..11560, 11475..11564, 11510..11560		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o4.ts	Method	TBLASTX:Soybean
Start	11817	End	12055
GI	none	Score	105
Exons	11817..12041, 11877..12041, 11947..12042, 11951..12055		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o1.ts	Method	TBLASTX:Soybean
Start	12498	End	13412
GI	none	Score	99
Exons	12498..12656, 12503..12637, 13182..13412, 13184..13411		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372

Name	OJ990517_12.9A29.C9.o4.tm	Method	TBLASTX:Maize
Start	13289	End	13708
GI	none	Score	183
Exons	13289..13648, 13299..13499, 13640..13708, 13644..13706		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o1.tc	Method	TBLASTX:Cress
Start	13298	End	13729
GI	none	Score	250
Exons	13298..13516, 13299..13514, 13300..13515, 13577..13636, 13622..13729, 13644..13727		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o7.tm	Method	TBLASTX:Maize
Start	13740	End	14366
GI	none	Score	172
Exons	13740..13940, 13742..13915, 14078..14203, 14078..14098, 14100..14201, 14102..14203, 14106..14204, 14284..14361, 14285..14362, 14286..14366		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o6.gs	Method	GENSCAN
Start	18134	End	21248
GI	none	Score	.8
Exons	18134..18653, 19559..19674, 20072..20233, 20602..20724, 21141..21248		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o3.gp	Method	AAT/GAP
Start	19804	End	21372
GI	21070_1.R1084	Score	1452
Exons	19804..20233, 20602..20724, 21141..21372		
GI Descrip.	'4928460/gb|AAD33596.1|AF133127_1 6.0e-28 (AF133127) thioredoxin h [Hevea brasiliensis]'		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o8.tm	Method	TBLASTX:Maize
Start	19996	End	21261
GI	none	Score	40
Exons	19996..20022, 20000..20029, 20100..20234, 20105..20239, 20191..20247, 20359..20391, 21138..21254, 21139..21261		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o2.np	Method	AAT/NAP
Start	20084	End	21242

GI	4928460	Score	289
Exons	20084..20233, 20602..20724, 21141..21242		
GI Descrip.	(AF133127) thioredoxin h [Hevea brasiliensis]		

Seq. No.	15170	Seq. ID	OJ990517_12.9A29.C9
Gene No.	32244	Strand	-
Start	18134	End	21372
Name	OJ990517_12.9A29.C9.o6.tm	Method	TBLASTX:Maize
Start	20598	End	20736
GI	none	Score	151
Exons	20598..20732, 20599..20736, 20599..20724, 20619..20732		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32245	Strand	+
Start	1566	End	10404
Name	OJ990517_12.9A29.C10.o1.gs	Method	GENSCAN
Start	1566	End	10404
GI	none	Score	.65
Exons	1566..1650, 1731..1856, 2173..2332, 2380..2430, 2549..2580, 3772..4029, 4636..4677, 5257..9417, 9847..9983, 10363..10404		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32245	Strand	+
Start	1566	End	10404
Name	OJ990517_12.9A29.C10.o1.np	Method	AAT/NAP
Start	5265	End	9434
GI	4234852	Score	4435
Exons	5265..5425, 5468..9434		
GI Descrip.	(AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32246	Strand	+
Start	21750	End	26226
Name	OJ990517_12.9A29.C10.o4.gs	Method	GENSCAN
Start	21750	End	25830
GI	none	Score	.79
Exons	21750..22160, 22292..22468, 22597..22721, 22789..22921, 23026..23175, 23265..23318, 24886..24987, 25039..25830		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32246	Strand	+
Start	21750	End	26226
Name	OJ990517_12.9A29.C10.o3.np	Method	AAT/NAP
Start	21762	End	26226
GI	4850399	Score	1433
Exons	21762..22160, 22292..22468, 22597..22721, 22789..22921, 23026..23175, 23265..23318, 23588..23692, 24026..24085, 24181..24255, 24339..24392, 24886..25011, 25066..25270, 25340..25752, 25849..25887, 25921..25980, 26079..26226		
GI Descrip.	(AC007357) F3F19.18 [Arabidopsis thaliana]		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32246	Strand	+
Start	21750	End	26226
Name	OJ990517_12.9A29.C10.o5.gp	Method	AAT/GAP
Start	24898	End	25334
GI	427365	Score	681

Exons	24898..24987, 25066..25334		
GI Descrip.	4850399/gb|AAD31069.1|AC007357_18 1.0e-13 (AC007357) F3F19.18 [Arabidopsis thaliana]		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32247	Strand	-
Start	73	End	539
Name	OJ990517_12.9A29.C10.o1.gp	Method	AAT/GAP
Start	73	End	539
GI	none	Score	875
Exons	73..539		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32248	Strand	-
Start	11804	End	17806
Name	OJ990517_12.9A29.C10.o2.gs	Method	GENSCAN
Start	11804	End	16626
GI	none	Score	.87
Exons	11804..11947, 12405..12506, 12599..12703, 12785..12889, 13414..13455, 13694..13852, 14205..14314, 14424..14565, 14704..14850, 14933..15007, 15083..15292, 15383..15586, 15674..15793, 15903..16012, 16193..16337, 16426..16626		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32248	Strand	-
Start	11804	End	17806
Name	OJ990517_12.9A29.C10.o2.gp	Method	AAT/GAP
Start	12008	End	12827
GI	25545_1.R1084	Score	1247
Exons	12008..12506, 12599..12703, 12785..12827		
GI Descrip.	'1170619/sp|Q07970|KATA_ARATH 5.0e-47 KINESIN-LIKE PROTEIN A >gi_479594_pir__S34830 kinesin-related protein katA - Arabidopsis thaliana >gi_303502_dbj_BAA01972_ (D11371) kinesin-like motor protein heavy chain [Arabidopsis thaliana] >gi_2911084_emb_CAA17546.1_ (AL021960) kinesin-related protein katA [Arabidopsis thaliana]'		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32248	Strand	-
Start	11804	End	17806
Name	OJ990517_12.9A29.C10.o2.np	Method	AAT/NAP
Start	12330	End	17806
GI	1170619	Score	1528
Exons	12330..12506, 12599..12703, 12785..12889, 13045..13126, 13414..13616, 13694..13852, 14205..14314, 14424..14565, 14704..14850, 14933..15007, 15083..15288, 15379..15586, 15674..15793, 15903..16012, 16193..16344, 17752..17806		
GI Descrip.	KINESIN-LIKE PROTEIN A gi|479594|pir||S34830 kinesin-related protein katA - Arabidopsis thaliana gi|303502|dbj|BAA01972| (D11371) kinesin-like motor protein heavy chain [Arabidopsis thaliana] gi|2911084|emb|CAA17546.1| (AL021960) kinesin-related protein katA [Arabidopsis thaliana]		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32248	Strand	-
Start	11804	End	17806
Name	OJ990517_12.9A29.C10.o3.gp	Method	AAT/GAP

Start	15755	End	16620
GI	uC-osf1M202097d05b1	Score	874
Exons	15755..15793, 15903..16012, 16193..16337, 16426..16620		
GI Descrip.	'1170620/sp|P46864|KATB_ARATH 4.0e-19 KINESIN-LIKE PROTEIN B >gi_1084341_pir__S48019 kinesin-related protein katB - Arabidopsis thaliana >gi_1438842_dbj_BAA04673_ (D21137) heavy chain polypeptide of kinesin-like protein [Arabidopsis thaliana]'		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32248	Strand	-
Start	11804	End	17806
Name	OJ990517_12.9A29.C10.o4.gp	Method	AAT/GAP
Start	16746	End	17108
GI	63359_1.R1084	Score	645
Exons	16746..17108		
GI Descrip.	'5262763/emb|CAB45911.1| 9.0e-09 (AL080283) putative protein [Arabidopsis thaliana]'		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o1.tm	Method	TBLASTX:Maize
Start	5357	End	6368
GI	none	Score	586
Exons	5357..5935, 5358..5966, 5976..6107, 6047..6088, 6212..6262, 6303..6368		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o4.tw	Method	TBLASTX:Wheat
Start	6288	End	6725
GI	none	Score	110
Exons	6288..6485, 6555..6725		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o3.ts	Method	TBLASTX:Soybean
Start	6582	End	6968
GI	none	Score	344
Exons	6582..6968, 6593..6799		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o2.tw	Method	TBLASTX:Wheat
Start	6744	End	7406
GI	none	Score	252
Exons	6744..6983, 6758..6982, 7023..7328, 7046..7306, 7307..7381, 7308..7406		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o8.tm	Method	TBLASTX:Maize

Start	6759	End	7217
GI	none	Score	128
Exons	6759..6983, 7032..7217, 7034..7195		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o4.tc	Method	TBLASTX:Cress
Start	7023	End	7403
GI	none	Score	127
Exons	7023..7223, 7236..7403		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o6.ts	Method	TBLASTX:Soybean
Start	7023	End	7409
GI	none	Score	190
Exons	7023..7232, 7025..7204, 7236..7409		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o2.ts	Method	TBLASTX:Soybean
Start	7920	End	8357
GI	5509260	Score	365
Exons	7920..8357, 7927..7953, 8009..8281, 8324..8356		
GI Descrip.	-		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o3.tc	Method	TBLASTX:Cress
Start	8007	End	8267
GI	none	Score	249
Exons	8007..8267, 8009..8245		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o1.tw	Method	TBLASTX:Wheat
Start	8048	End	8828
GI	none	Score	364
Exons	8048..8395, 8049..8393, 8049..8402, 8378..8824, 8379..8828		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o7.tm	Method	TBLASTX:Maize
Start	8049	End	8492
GI	none	Score	275
Exons	8049..8357, 8066..8356, 8391..8492		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o6.tm	Method	TBLASTX:Maize

Start	8493	End	8924
GI	none	Score	81
Exons	8493..8654, 8628..8924, 8768..8923		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o5.ts	Method	TBLASTX:Soybean
Start	8814	End	9380
GI	none	Score	131
Exons	8814..8996, 9009..9200, 9189..9380		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o10.tm	Method	TBLASTX:Maize
Start	8937	End	9395
GI	none	Score	55
Exons	8937..8996, 8979..9155, 9204..9395		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o3.tw	Method	TBLASTX:Wheat
Start	8984	End	9383
GI	none	Score	282
Exons	8984..9217, 8988..9383		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o1.tc	Method	TBLASTX:Cress
Start	12321	End	16340
GI	none	Score	173
Exons	12321..12530, 12367..12516, 12599..12706, 12606..12704, 12785..12892, 12789..12896, 13045..13131, 13046..13132, 13413..13541, 13542..13622, 13573..13620, 13685..13795, 13692..13784, 13790..13855, 14181..14291, 14187..14324, 14197..14340, 14422..14520, 14509..14565, 14702..14848, 14704..14853, 14934..15008, 15083..15286, 15380..15577, 15444..15572, 16203..16340		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o1.ts	Method	TBLASTX:Soybean
Start	12324	End	12820
GI	none	Score	175
Exons	12324..12530, 12355..12516, 12599..12703, 12606..12704, 12788..12820, 12789..12818		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o5.tm	Method	TBLASTX:Maize
Start	12457	End	12892
GI	none	Score	68

Exons	12457..12516, 12459..12530, 12593..12700, 12599..12703, 12606..12704, 12609..12707, 12783..12845, 12788..12892, 12789..12878		
Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o4.ts	Method	TBLASTX:Soybean
Start	13407	End	14511
GI	none	Score	104
Exons	13407..13532, 13411..13530, 13569..13622, 13576..13620, 13685..13795, 13692..13778, 13775..13855, 13796..13873, 14181..14300, 14187..14315, 14197..14304, 14204..14308, 14419..14511		
Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o4.tm	Method	TBLASTX:Maize
Start	13539	End	13881
GI	none	Score	116
Exons	13539..13622, 13546..13620, 13547..13621, 13685..13855, 13694..13855, 13696..13881		
Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o2.tm	Method	TBLASTX:Maize
Start	14195	End	16563
GI	none	Score	49
Exons	14195..14245, 14243..14260, 14280..14324, 14281..14316, 14417..14470, 14422..14565, 14507..14566, 14701..14757, 14704..14748, 14749..14856, 14750..14851, 14904..15008, 14946..15008, 14950..15012, 14977..15018, 15029..15286, 15081..15287, 15083..15313, 15112..15330, 15377..15586, 15381..15587, 15386..15592, 15665..15793, 15672..15740, 15676..15795, 15900..16013, 15918..16013, 16192..16338, 16194..16340, 16213..16338, 16426..16563, 16433..16555		
Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o8.ts	Method	TBLASTX:Soybean
Start	15170	End	15551
GI	none	Score	63
Exons	15170..15286, 15171..15281, 15377..15550, 15441..15551		
Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32249	Strand	-
Start	19294	End	20730
Name	OJ990517_12.9A29.C10.o3.gs	Method	GENSCAN
Start	19294	End	20730
GI	none	Score	.89
Exons	19294..19412, 20325..20730		
Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32250	Strand	

Start	21743	End	21908
Name	OJ990517_12.9A29.C10.o11.tm	Method	TBLASTX:Maize
Start	21743	End	21908
GI	none	Score	199
Exons	21743..21856, 21744..21908		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32251	Strand	
Start	21819	End	22151
Name	OJ990517_12.9A29.C10.o2.tc	Method	TBLASTX:Cress
Start	21819	End	22151
GI	none	Score	114
Exons	21819..21950, 21981..22151		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32252	Strand	
Start	22351	End	22885
Name	OJ990517_12.9A29.C10.o7.ts	Method	TBLASTX:Soybean
Start	22351	End	22731
GI	none	Score	161
Exons	22351..22452, 22352..22468, 22582..22731, 22599..22721		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32252	Strand	
Start	22351	End	22885
Name	OJ990517_12.9A29.C10.o9.tm	Method	TBLASTX:Maize
Start	22594	End	22885
GI	none	Score	216
Exons	22594..22752, 22594..22722, 22595..22723, 22599..22748, 22786..22824, 22787..22831, 22790..22885, 22791..22877		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32253	Strand	
Start	23104	End	26126
Name	OJ990517_12.9A29.C10.o3.tm	Method	TBLASTX:Maize
Start	23104	End	26126
GI	none	Score	103
Exons	23104..23175, 23106..23168, 23262..23321, 23263..23319, 23264..23320, 23368..23418, 23594..23692, 23596..23691, 24020..24088, 24020..24085, 24160..24258, 24181..24255, 24336..24395, 24338..24391, 24338..24427, 24884..24964, 24888..24998, 24888..24989, 24889..24999, 25063..25269, 25064..25267, 25066..25278, 25268..25372, 25269..25346, 25273..25356, 25385..25453, 25523..25753, 25523..25756, 25823..25981, 25872..25979, 25879..25986, 26079..26126		

Seq. No.	15171	Seq. ID	OJ990517_12.9A29.C10
Gene No.	32253	Strand	
Start	23104	End	26126
Name	OJ990517_12.9A29.C10.o9.ts	Method	TBLASTX:Soybean
Start	24053	End	24990
GI	none	Score	57
Exons	24053..24088, 24160..24258, 24181..24255, 24336..24392, 24339..24389, 24885..24989, 24889..24990		

Seq. No.	15172	Seq. ID	OJ990517_12.9A29.C11
Gene No.	32254	Strand	+

Start	1	End	454
Name	OJ990517_12.9A29.C11.o1.gp	Method	AAT/GAP
Start	1	End	454
GI	2442924	Score	540
Exons	1..31, 179..454		
GI Descrip.	5262763/emb|CAB45911.1| 9.0e-09 (AL080283) putative protein [Arabidopsis thaliana]		

Seq. No.	15172	Seq. ID	OJ990517_12.9A29.C11
Gene No.	32254	Strand	+
Start	1	End	454
Name	OJ990517_12.9A29.C11.o1.np	Method	AAT/NAP
Start	1	End	325
GI	5262763	Score	164
Exons	1..31, 179..325		
GI Descrip.	(AL080283) putative protein [Arabidopsis thaliana]		

Seq. No.	15172	Seq. ID	OJ990517_12.9A29.C11
Gene No.	32255	Strand	+
Start	1159	End	2581
Name	OJ990517_12.9A29.C11.o1.tm	Method	TBLASTX:Maize
Start	1133	End	2409
GI	none	Score	114
Exons	1133..1300, 1187..1291, 1191..1301, 1455..1619, 1456..1623, 1459..1626, 2323..2409, 2329..2409		

Seq. No.	15172	Seq. ID	OJ990517_12.9A29.C11
Gene No.	32255	Strand	+
Start	1159	End	2581
Name	OJ990517_12.9A29.C11.o2.gp	Method	AAT/GAP
Start	1159	End	1615
GI	17023_1.R1084	Score	422
Exons	1159..1293, 1457..1615		
GI Descrip.	'4508073/gb|AAD21417.1| 1.0e-15 (AC005882) 43220 [Arabidopsis thaliana]'		

Seq. No.	15172	Seq. ID	OJ990517_12.9A29.C11
Gene No.	32255	Strand	+
Start	1159	End	2581
Name	OJ990517_12.9A29.C11.o1.gs	Method	GENSCAN
Start	1173	End	2541
GI	none	Score	.47
Exons	1173..1293, 1457..1623, 2332..2541		

Seq. No.	15172	Seq. ID	OJ990517_12.9A29.C11
Gene No.	32255	Strand	+
Start	1159	End	2581
Name	OJ990517_12.9A29.C11.o2.np	Method	AAT/NAP
Start	1176	End	2581
GI	1706368	Score	232
Exons	1176..1293, 1457..1623, 2332..2581		
GI Descrip.	DIHYDROFLAVONOL-4-REDUCTASE (DFR) (DIHYDROKAEMPFEROL 4-REDUCTASE) gi|320557|pir||JQ1688 dihydrokaempferol 4-reductase (EC 1.1.1.219) - Arabidopsis thaliana gi|166686 (M86359) dihydroflavonol 4-reductase [Arabidopsis thaliana] gi|6045053|dbj|BAA85261.1| (AB033294) dihydroflavonol 4-reductase [Arabidopsis thaliana]		

Seq. No.	15172	Seq. ID	OJ990517_12.9A29.C11
Gene No.	32255	Strand	+
Start	1159	End	2581
Name	OJ990517_12.9A29.C11.o1.tw	Method	TBLASTX:Wheat
Start	1205	End	2446
GI	none	Score	117
Exons	1205..1297, 1206..1298, 1459..1605, 1460..1567, 1464..1619, 1465..1623, 2329..2442, 2358..2441, 2366..2446		

Seq. No.	15173	Seq. ID	OJ990517_12.9A29.C12
Gene No.	32256	Strand	+
Start	1	End	924
Name	OJ990517_12.9A29.C12.o1.np	Method	AAT/NAP
Start	1	End	924
GI	6689826	Score	189
Exons	1..96, 184..299, 402..696, 790..924		
GI Descrip.	(AF092912) DFR-like protein [Arabidopsis thaliana]		

Seq. No.	15173	Seq. ID	OJ990517_12.9A29.C12
Gene No.	32256	Strand	+
Start	1	End	924
Name	OJ990517_12.9A29.C12.o1.gs	Method	GENSCAN
Start	166	End	918
GI	none	Score	.9
Exons	166..340, 443..677, 768..918		

Seq. No.	15173	Seq. ID	OJ990517_12.9A29.C12
Gene No.	32257	Strand	-
Start	990	End	1520
Name	OJ990517_12.9A29.C12.o1.tm	Method	TBLASTX:Maize
Start	208	End	632
GI	none	Score	117
Exons	208..345, 210..344, 220..348, 415..549, 426..548, 442..549, 585..632, 586..630		

Seq. No.	15173	Seq. ID	OJ990517_12.9A29.C12
Gene No.	32257	Strand	-
Start	990	End	1520
Name	OJ990517_12.9A29.C12.o2.gs	Method	GENSCAN
Start	990	End	1520
GI	none	Score	.78
Exons	990..1168, 1307..1411, 1472..1520		

Seq. No.	15174	Seq. ID	OJ990517_12.9A29.C15
Gene No.	32258	Strand	+
Start	48	End	606
Name	OJ990517_12.9A29.C15.o1.tm	Method	TBLASTX:Maize
Start	2	End	600
GI	none	Score	53
Exons	2..58, 2..58, 6..71, 57..587, 66..416, 73..591, 179..586, 412..600		

Seq. No.	15174	Seq. ID	OJ990517_12.9A29.C15
Gene No.	32258	Strand	+
Start	48	End	606
Name	OJ990517_12.9A29.C15.o1.gs	Method	GENSCAN

Start	48	End	606
GI	none	Score	.75
Exons	48..606		

Seq. No.	15174	Seq. ID	OJ990517_12.9A29.C15
Gene No.	32258	Strand	+
Start	48	End	606
Name	OJ990517_12.9A29.C15.o1.tw	Method	TBLASTX:Wheat
Start	201	End	572
GI	none	Score	210
Exons	201..572		

Seq. No.	15174	Seq. ID	OJ990517_12.9A29.C15
Gene No.	32258	Strand	+
Start	48	End	606
Name	OJ990517_12.9A29.C15.o1.ts	Method	TBLASTX:Soybean
Start	210	End	587
GI	none	Score	221
Exons	210..587		

Seq. No.	15175	Seq. ID	OJ990517_12.9A29.C17
Gene No.	32259	Strand	-
Start	56	End	566
Name	OJ990517_12.9A29.C17.o1.np	Method	AAT/NAP
Start	56	End	566
GI	2347189	Score	138
Exons	56..566		
GI Descrip.	(AC002338) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	15175	Seq. ID	OJ990517_12.9A29.C17
Gene No.	32259	Strand	-
Start	56	End	566
Name	OJ990517_12.9A29.C17.o1.gs	Method	GENSCAN
Start	92	End	522
GI	none	Score	.71
Exons	92..522		

Seq. No.	15175	Seq. ID	OJ990517_12.9A29.C17
Gene No.	32259	Strand	-
Start	56	End	566
Name	OJ990517_12.9A29.C17.o1.tm	Method	TBLASTX:Maize
Start	287	End	493
GI	none	Score	80
Exons	287..397, 300..374, 332..382, 398..493, 399..485, 410..493		

Seq. No.	15176	Seq. ID	OJ990517_12.9A29.C19
Gene No.	32260	Strand	-
Start	78	End	3186
Name	OJ990517_12.9A29.C19.o2.np	Method	AAT/NAP
Start	78	End	3186
GI	1706370	Score	317
Exons	78..283, 384..621, 1031..1190, 2055..2255, 2509..2675, 3016..3186		
GI Descrip.	DIHYDROFLAVONOL-4-REDUCTASE (DFR) (DIHYDROKAEMPFEROL 4-REDUCTASE) gi|1067127|emb|CAA91924| (Z67983) dihydroflavonol 4-reductase [Dianthus caryophyllus]		

Seq. No.	15176	Seq. ID	OJ990517_12.9A29.C19
Gene No.	32260	Strand	-
Start	78	End	3186
Name	OJ990517_12.9A29.C19.o1.np	Method	AAT/NAP
Start	122	End	3150
GI	6689826	Score	570
Exons	122..283, 387..621, 1031..1190, 2055..2255, 2509..2675, 3016..3150		
GI Descrip.	(AF092912) DFR-like protein [Arabidopsis thaliana]		

Seq. No.	15176	Seq. ID	OJ990517_12.9A29.C19
Gene No.	32260	Strand	-
Start	78	End	3186
Name	OJ990517_12.9A29.C19.o1.gs	Method	GENSCAN
Start	162	End	3138
GI	none	Score	.81
Exons	162..283, 384..621, 1031..1190, 2055..2255, 2509..2646, 3016..3138		

Seq. No.	15176	Seq. ID	OJ990517_12.9A29.C19
Gene No.	32261	Strand	-
Start	4371	End	5737
Name	OJ990517_12.9A29.C19.o2.gs	Method	GENSCAN
Start	4371	End	5737
GI	none	Score	.51
Exons	4371..4588, 4615..4964, 5697..5737		

Seq. No.	15176	Seq. ID	OJ990517_12.9A29.C19
Gene No.	32262	Strand	-
Start	5708	End	5920
Name	OJ990517_12.9A29.C19.o1.tw	Method	TBLASTX:Wheat
Start	2142	End	3106
GI	none	Score	74
Exons	2142..2258, 2143..2298, 2143..2226, 2145..2258, 2501..2683, 2533..2676, 3011..3064, 3012..3065, 3064..3105, 3065..3106		

Seq. No.	15176	Seq. ID	OJ990517_12.9A29.C19
Gene No.	32262	Strand	-
Start	5708	End	5920
Name	OJ990517_12.9A29.C19.o1.tm	Method	TBLASTX:Maize
Start	2178	End	3151
GI	none	Score	208
Exons	2178..2258, 2465..2683, 2509..2676, 3008..3064, 3012..3062, 3020..3067, 3064..3150, 3068..3151		

Seq. No.	15176	Seq. ID	OJ990517_12.9A29.C19
Gene No.	32262	Strand	-
Start	5708	End	5920
Name	OJ990517_12.9A29.C19.o1.gp	Method	AAT/GAP
Start	5708	End	5920
GI	LIB3432-015-P1-K1-B3	Score	311
Exons	5708..5809, 5840..5920		
GI Descrip.	'5262763/emb|CAB45911.1| 9.0e-09 (AL080283) putative protein [Arabidopsis thaliana]'		

Seq. No.	15176	Seq. ID	OJ990517_12.9A29.C19
Gene No.	32262	Strand	-

Start	5708	End	5920
Name	OJ990517_12.9A29.C19.o3.np	Method	AAT/NAP
Start	5764	End	5920
GI	3894187	Score	128
Exons	5764..5920		
GI Descrip.	(AC005662) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	15177	Seq. ID	OJ990517_12.9A29.C20
Gene No.	32263	Strand	+
Start	440	End	1653
Name	OJ990517_12.9A29.C20.o2.np	Method	AAT/NAP
Start	440	End	1653
GI	6721543	Score	90
Exons	440..568, 1219..1294, 1613..1653		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	15177	Seq. ID	OJ990517_12.9A29.C20
Gene No.	32264	Strand	-
Start	186	End	286
Name	OJ990517_12.9A29.C20.o1.np	Method	AAT/NAP
Start	186	End	286
GI	5777617	Score	80
Exons	186..286		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	15177	Seq. ID	OJ990517_12.9A29.C20
Gene No.	32265	Strand	-
Start	1078	End	5429
Name	OJ990517_12.9A29.C20.o1.gp	Method	AAT/GAP
Start	800	End	1253
GI	LIB3431-045-P1-N1-A10	Score	836
Exons	800..1253		
GI Descrip.	'5441876/dbj|AP000367.1|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	15177	Seq. ID	OJ990517_12.9A29.C20
Gene No.	32265	Strand	-
Start	1078	End	5429
Name	OJ990517_12.9A29.C20.o1.gs	Method	GENSCAN
Start	1078	End	5388
GI	none	Score	.68
Exons	1078..1238, 1389..1591, 1596..1643, 1707..1838, 2085..2182, 2209..2334, 2427..2633, 2812..3063, 3154..3564, 3739..3985, 4091..4241, 4688..4879, 5295..5388		

Seq. No.	15177	Seq. ID	OJ990517_12.9A29.C20
Gene No.	32265	Strand	-
Start	1078	End	5429
Name	OJ990517_12.9A29.C20.o3.np	Method	AAT/NAP
Start	1357	End	5429
GI	5441880	Score	2940
Exons	1357..1591, 1707..1838, 2085..2182, 2427..2685, 2765..3063, 3649..3985, 4091..4241, 4802..5116, 5374..5429		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	15177	Seq. ID	OJ990517_12.9A29.C20
Gene No.	32265	Strand	-
Start	1078	End	5429
Name	OJ990517_12.9A29.C20.o2.gp	Method	AAT/GAP
Start	2435	End	2937
GI	LIB3475-007-P1-K1-G8	Score	790
Exons	2435..2685, 2765..2937		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	15178	Seq. ID	OJ990517_12.9A29.C21
Gene No.	32266	Strand	-
Start	183	End	872
Name	OJ990517_12.9A29.C21.o1.np	Method	AAT/NAP
Start	183	End	872
GI	5441880	Score	390
Exons	183..214, 659..872		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	15178	Seq. ID	OJ990517_12.9A29.C21
Gene No.	32266	Strand	-
Start	183	End	872
Name	OJ990517_12.9A29.C21.o1.tw	Method	TBLASTX:Wheat
Start	429	End	809
GI	none	Score	79
Exons	429..605, 459..605, 490..609, 603..800, 615..809		

Seq. No.	15178	Seq. ID	OJ990517_12.9A29.C21
Gene No.	32266	Strand	-
Start	183	End	872
Name	OJ990517_12.9A29.C21.o1.tm	Method	TBLASTX:Maize
Start	507	End	872
GI	none	Score	113
Exons	507..578, 642..872, 703..864		

Seq. No.	15178	Seq. ID	OJ990517_12.9A29.C21
Gene No.	32266	Strand	-
Start	183	End	872
Name	OJ990517_12.9A29.C21.o1.gp	Method	AAT/GAP
Start	629	End	872
GI	5701669	Score	477
Exons	629..872		
GI Descrip.	5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32267	Strand	+
Start	1641	End	1805
Name	OJ990517_12.9A29.C22.o2.gp	Method	AAT/GAP
Start	1641	End	1805
GI	7406_1.R1084	Score	225
Exons	1641..1805		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0		

[Pennisetum glaucum]'

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32268	Strand	+
Start	8623	End	8694
Name	OJ990517_12.9A29.C22.o5.gp	Method	AAT/GAP
Start	8623	End	8694
GI	uC-osflM202097d10b1	Score	101
Exons	8623..8694		
GI Descrip.	'4062935/dbj|AB003495.1|AB003495 3.0e-14 Oryza sativa DNA for dihydroflavonol 4-reductase, complete cds'		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32269	Strand	+
Start	11385	End	11622
Name	OJ990517_12.9A29.C22.o4.gs	Method	GENSCAN
Start	11385	End	11622
GI	none	Score	.8
Exons	11385..11622		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32270	Strand	-
Start	1	End	1819
Name	OJ990517_12.9A29.C22.o1.gp	Method	AAT/GAP
Start	1	End	145
GI	5701669	Score	270
Exons	1..145		
GI Descrip.	5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32270	Strand	-
Start	1	End	1819
Name	OJ990517_12.9A29.C22.o1.np	Method	AAT/NAP
Start	1	End	750
GI	5441880	Score	1280
Exons	1..750		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32270	Strand	-
Start	1	End	1819
Name	OJ990517_12.9A29.C22.o1.gs	Method	GENSCAN
Start	277	End	903
GI	none	Score	.68
Exons	277..903		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32270	Strand	-
Start	1	End	1819
Name	OJ990517_12.9A29.C22.o2.np	Method	AAT/NAP
Start	763	End	1819
GI	6721543	Score	155
Exons	763..872, 1684..1819		

GI Descrip. (AP001073) hypothetical protein [Oryza sativa]

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32271	Strand	-
Start	2690	End	9927
Name	OJ990517_12.9A29.C22.o2.gs	Method	GENSCAN
Start	2690	End	5451
GI	none	Score	.84
Exons	2690..2854, 2856..3046, 3688..3746, 3868..4002, 4078..4297, 4411..4570, 4668..4877, 4962..5137, 5328..5451		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32271	Strand	-
Start	2690	End	9927
Name	OJ990517_12.9A29.C22.o3.gp	Method	AAT/GAP
Start	3671	End	4319
GI	33857_1.R1084	Score	901
Exons	3671..4002, 4078..4319		
GI Descrip.	'4508073/gb|AAD21417.1| 5.0e-22 (AC005882) 43220 [Arabidopsis thaliana]'		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32271	Strand	-
Start	2690	End	9927
Name	OJ990517_12.9A29.C22.o3.np	Method	AAT/NAP
Start	3846	End	9775
GI	6689826	Score	598
Exons	3846..4010, 4092..4286, 4400..4571, 8246..8459, 9207..9373, 9643..9775		
GI Descrip.	(AF092912) DFR-like protein [Arabidopsis thaliana]		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32271	Strand	-
Start	2690	End	9927
Name	OJ990517_12.9A29.C22.o1.ts	Method	TBLASTX:Soybean
Start	3921	End	7554
GI	none	Score	97
Exons	3921..3986, 4089..4244, 4093..4245, 7212..7277, 7387..7479, 7477..7554		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32271	Strand	-
Start	2690	End	9927
Name	OJ990517_12.9A29.C22.o2.tm	Method	TBLASTX:Maize
Start	4125	End	8121
GI	none	Score	75
Exons	4125..4244, 4126..4233, 4146..4259, 4156..4302, 4248..4301, 4403..4543, 4404..4541, 7421..7468, 7424..7468, 7483..7575, 7487..7573, 7984..8121, 7985..8089		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32271	Strand	-
Start	2690	End	9927
Name	OJ990517_12.9A29.C22.o2.ts	Method	TBLASTX:Soybean
Start	4403	End	9779
GI	none	Score	80
Exons	4403..4570, 4677..4736, 4767..4880, 4995..5087, 5335..5424,		

5336..5428, 7963..8148, 8250..8309, 8334..8462, 9207..9323, 9647..9736, 9651..9779

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32271	Strand	-
Start	2690	End	9927
Name	OJ990517_12.9A29.C22.o1.tm	Method	TBLASTX:Maize
Start	4757	End	9344
GI	none	Score	132
Exons	4757..4879, 4764..4880, 4794..4880, 4959..5096, 4995..5096, 4996..5109, 5091..5120, 5092..5121, 8319..8462, 8320..8460, 8322..8489, 9201..9329, 9207..9344		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32271	Strand	-
Start	2690	End	9927
Name	OJ990517_12.9A29.C22.o1.tw	Method	TBLASTX:Wheat
Start	4762	End	9731
GI	none	Score	108
Exons	4762..4851, 4764..4880, 4794..4880, 4995..5138, 4995..5138, 5323..5415, 5324..5416, 8349..8462, 8350..8436, 9210..9377, 9225..9374, 9638..9730, 9639..9731		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32271	Strand	-
Start	2690	End	9927
Name	OJ990517_12.9A29.C22.o1.tc	Method	TBLASTX:Cress
Start	4767	End	9772
GI	none	Score	64
Exons	4767..4880, 4983..5138, 5329..5436, 8331..8462, 8350..8433, 9201..9425, 9207..9377, 9644..9772		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32271	Strand	-
Start	2690	End	9927
Name	OJ990517_12.9A29.C22.o4.gp	Method	AAT/GAP
Start	5013	End	5560
GI	uC-osflcyp017f04b1	Score	612
Exons	5013..5137, 5328..5560		
GI Descrip.	'4508073/gb|AAD21417.1| 2.0e-17 (AC005882) 43220 [Arabidopsis thaliana]'		

Seq. No.	15179	Seq. ID	OJ990517_12.9A29.C22
Gene No.	32271	Strand	-
Start	2690	End	9927
Name	OJ990517_12.9A29.C22.o3.gs	Method	GENSCAN
Start	7140	End	9927
GI	none	Score	.97
Exons	7140..7293, 7376..7595, 7989..8148, 8241..8459, 9207..9373, 9643..9793, 9832..9927		

Seq. No.	15180	Seq. ID	OJ990517_12.9A29.C23
Gene No.	32272	Strand	+
Start	441	End	677
Name	OJ990517_12.9A29.C23.o1.gs	Method	GENSCAN
Start	441	End	677
GI	none	Score	.49

Exons	441..677		
Seq. No.	15181	Seq. ID	OJ990517_12.9A29.C24
Gene No.	32273	Strand	-
Start	329	End	514
Name	OJ990517_12.9A29.C24.o1.gs	Method	GENSCAN
Start	329	End	514
GI	none	Score	.63
Exons	329..514		
Seq. No.	15182	Seq. ID	OJ990517_12.9A29.C25
Gene No.	32274	Strand	+
Start	1	End	680
Name	OJ990517_12.9A29.C25.o1.np	Method	AAT/NAP
Start	1	End	680
GI	5441880	Score	510
Exons	1..680		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		
Seq. No.	15182	Seq. ID	OJ990517_12.9A29.C25
Gene No.	32274	Strand	+
Start	1	End	680
Name	OJ990517_12.9A29.C25.o1.gs	Method	GENSCAN
Start	403	End	594
GI	none	Score	.59
Exons	403..594		
Seq. No.	15183	Seq. ID	OJ990517_12.9A29.C26
Gene No.	32275	Strand	-
Start	600	End	741
Name	OJ990517_12.9A29.C26.o1.tw	Method	TBLASTX:Wheat
Start	587	End	741
GI	none	Score	198
Exons	587..739, 597..737, 601..741		
Seq. No.	15183	Seq. ID	OJ990517_12.9A29.C26
Gene No.	32275	Strand	-
Start	600	End	741
Name	OJ990517_12.9A29.C26.o1.tm	Method	TBLASTX:Maize
Start	597	End	741
GI	none	Score	203
Exons	597..740, 598..741, 599..739, 601..741		
Seq. No.	15183	Seq. ID	OJ990517_12.9A29.C26
Gene No.	32275	Strand	-
Start	600	End	741
Name	OJ990517_12.9A29.C26.o1.gp	Method	AAT/GAP
Start	600	End	741
GI	969005	Score	263
Exons	600..741		
Seq. No.	15184	Seq. ID	OJ990517_12.9A29.C27
Gene No.	32276	Strand	-
Start	111	End	659
Name	OJ990517_12.9A29.C27.o1.gs	Method	GENSCAN

Start	111	End	659
GI	none	Score	.97
Exons	111..281, 593..659		

Seq. No.	15185	Seq. ID	OJ990517_12.9A29.C32
Gene No.	32277	Strand	-
Start	1	End	720
Name	OJ990517_12.9A29.C32.o1.np	Method	AAT/NAP
Start	1	End	720
GI	6689826	Score	114
Exons	1..152, 255..373, 643..720		
GI Descrip.	(AF092912) DFR-like protein [Arabidopsis thaliana]		

Seq. No.	15185	Seq. ID	OJ990517_12.9A29.C32
Gene No.	32277	Strand	-
Start	1	End	720
Name	OJ990517_12.9A29.C32.o1.gs	Method	GENSCAN
Start	54	End	388
GI	none	Score	.59
Exons	54..111, 246..388		

Seq. No.	15186	Seq. ID	OJ990517_12.9A29.C33
Gene No.	32278	Strand	-
Start	1	End	547
Name	OJ990517_12.9A29.C33.o1.np	Method	AAT/NAP
Start	1	End	547
GI	4455160	Score	128
Exons	1..245, 333..547		
GI Descrip.	(AL031187) kinesin-related protein katA (fragment) [Arabidopsis thaliana]		

Seq. No.	15186	Seq. ID	OJ990517_12.9A29.C33
Gene No.	32278	Strand	-
Start	1	End	547
Name	OJ990517_12.9A29.C33.o1.tm	Method	TBLASTX:Maize
Start	36	End	454
GI	none	Score	214
Exons	36..245, 40..246, 45..251, 324..452, 331..399, 335..454		

Seq. No.	15186	Seq. ID	OJ990517_12.9A29.C33
Gene No.	32278	Strand	-
Start	1	End	547
Name	OJ990517_12.9A29.C33.o1.gs	Method	GENSCAN
Start	42	End	452
GI	none	Score	1
Exons	42..245, 333..452		

Seq. No.	15187	Seq. ID	OJ990517_12.9A29.C34
Gene No.	32279	Strand	+
Start	1	End	1355
Name	OJ990517_12.9A29.C34.o1.np	Method	AAT/NAP
Start	1	End	1355
GI	5922623	Score	105
Exons	1..155, 323..390, 1248..1355		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	15187	Seq. ID	OJ990517_12.9A29.C34
Gene No.	32279	Strand	+
Start	1	End	1355
Name	OJ990517_12.9A29.C34.o1.gs	Method	GENSCAN
Start	250	End	402
GI	none	Score	.67
Exons	250..304, 323..402		

Seq. No.	15187	Seq. ID	OJ990517_12.9A29.C34
Gene No.	32280	Strand	-
Start	872	End	1006
Name	OJ990517_12.9A29.C34.o2.gs	Method	GENSCAN
Start	872	End	1006
GI	none	Score	.84
Exons	872..1006		

Seq. No.	15188	Seq. ID	OJ990517_12.9A29.C35
Gene No.	32281	Strand	-
Start	1	End	2167
Name	OJ990517_12.9A29.C35.o1.np	Method	AAT/NAP
Start	1	End	2167
GI	5042454	Score	2268
Exons	1..1500, 1557..1663, 2017..2167		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	15188	Seq. ID	OJ990517_12.9A29.C35
Gene No.	32281	Strand	-
Start	1	End	2167
Name	OJ990517_12.9A29.C35.o1.gs	Method	GENSCAN
Start	307	End	2077
GI	none	Score	.58
Exons	307..1092, 1116..1500, 1557..1661, 2021..2077		

Seq. No.	15188	Seq. ID	OJ990517_12.9A29.C35
Gene No.	32282	Strand	-
Start	2913	End	12424
Name	OJ990517_12.9A29.C35.o1.tw	Method	TBLASTX:Wheat
Start	437	End	829
GI	none	Score	95
Exons	437..694, 471..710, 677..775, 678..770, 782..829		

Seq. No.	15188	Seq. ID	OJ990517_12.9A29.C35
Gene No.	32282	Strand	-
Start	2913	End	12424
Name	OJ990517_12.9A29.C35.o2.tm	Method	TBLASTX:Maize
Start	539	End	824
GI	none	Score	108
Exons	539..787, 540..824		

Seq. No.	15188	Seq. ID	OJ990517_12.9A29.C35
Gene No.	32282	Strand	-
Start	2913	End	12424
Name	OJ990517_12.9A29.C35.o2.gs	Method	GENSCAN
Start	2913	End	12424
GI	none	Score	.94
Exons	2913..3047, 3623..3644, 3824..3937, 4052..4265, 4422..4581,		

4710..4913, 5090..5256, 5698..5883, 7851..7975, 8657..8770,
8867..9104, 9406..9565, 10112..10312, 10426..10592,
10959..11098, 12333..12424

Seq. No.	15188	Seq. ID	OJ990517_12.9A29.C35
Gene No.	32282	Strand	-
Start	2913	End	12424
Name	OJ990517_12.9A29.C35.o1.gp	Method	AAT/GAP
Start	3801	End	4159
GI	2797550	Score	444
Exons	3801..3937, 4052..4159		

Seq. No.	15188	Seq. ID	OJ990517_12.9A29.C35
Gene No.	32282	Strand	-
Start	2913	End	12424
Name	OJ990517_12.9A29.C35.o1.ts	Method	TBLASTX:Soybean
Start	3859	End	9072
GI	none	Score	54
Exons	3859..3936, 3860..3934, 4051..4224, 4055..4222, 8692..8769, 8869..8958, 9007..9072		

Seq. No.	15188	Seq. ID	OJ990517_12.9A29.C35
Gene No.	32282	Strand	-
Start	2913	End	12424
Name	OJ990517_12.9A29.C35.o1.tc	Method	TBLASTX:Cress
Start	4785	End	11088
GI	none	Score	84
Exons	4785..4916, 5090..5257, 5699..5773, 5762..5818, 10184..10315, 10426..10581, 10960..11088		

Seq. No.	15188	Seq. ID	OJ990517_12.9A29.C35
Gene No.	32282	Strand	-
Start	2913	End	12424
Name	OJ990517_12.9A29.C35.o1.tm	Method	TBLASTX:Maize
Start	4788	End	10551
GI	none	Score	156
Exons	4788..4916, 4792..4914, 5090..5212, 5090..5215, 10175..10315, 10194..10313, 10426..10551, 10426..10551		

Seq. No.	15188	Seq. ID	OJ990517_12.9A29.C35
Gene No.	32282	Strand	-
Start	2913	End	12424
Name	OJ990517_12.9A29.C35.o2.tw	Method	TBLASTX:Wheat
Start	4798	End	11047
GI	none	Score	109
Exons	4798..4905, 4803..4916, 4803..4916, 4909..4947, 5093..5257, 5108..5257, 5693..5785, 5694..5786, 10200..10295, 10202..10315, 10202..10315, 10418..10600, 10434..10592, 10444..10623, 10450..10593, 10955..11041, 10960..11046, 10961..11047		

Seq. No.	15188	Seq. ID	OJ990517_12.9A29.C35
Gene No.	32282	Strand	-
Start	2913	End	12424
Name	OJ990517_12.9A29.C35.o2.np	Method	AAT/NAP
Start	8617	End	11091
GI	6689826	Score	643
Exons	8617..8770, 8870..9104, 9406..9565, 10112..10312, 10426..10592,		

	10959..11091		
GI Descrip.	(AF092912) DFR-like protein [Arabidopsis thaliana]		
Seq. No.	15188	Seq. ID	OJ990517_12.9A29.C35
Gene No.	32282	Strand	-
Start	2913	End	12424
Name	OJ990517_12.9A29.C35.o2.gp	Method	AAT/GAP
Start	10211	End	11204
GI	17023_1.R1084	Score	861
Exons	10211..10312, 10426..10592, 10959..11204		
GI Descrip.	'4508073/gb|AAD21417.1| 1.0e-15 (AC005882) 43220 [Arabidopsis thaliana]'		
Seq. No.	15189	Seq. ID	OJ990517_12.9A29.C36
Gene No.	32283	Strand	+
Start	126	End	252
Name	OJ990517_12.9A29.C36.o1.gs	Method	GENSCAN
Start	126	End	252
GI	none	Score	.59
Exons	126..252		
Seq. No.	15190	Seq. ID	OJ990517_12.9A29.C38
Gene No.	32284	Strand	-
Start	117	End	239
Name	OJ990517_12.9A29.C38.o1.gs	Method	GENSCAN
Start	117	End	239
GI	none	Score	.59
Exons	117..239		
Seq. No.	15191	Seq. ID	OJ990517_12.9A29.C39
Gene No.	32285	Strand	-
Start	113	End	370
Name	OJ990517_12.9A29.C39.o1.gs	Method	GENSCAN
Start	113	End	370
GI	none	Score	.77
Exons	113..370		
Seq. No.	15192	Seq. ID	OJ990517_12.9A29.C42
Gene No.	32286	Strand	-
Start	224	End	1438
Name	OJ990517_12.9A29.C42.o1.np	Method	AAT/NAP
Start	224	End	1438
GI	2982283	Score	86
Exons	224..415, 597..754, 1408..1438		
GI Descrip.	(AF051226) PREG-like protein [Picea mariana]		
Seq. No.	15192	Seq. ID	OJ990517_12.9A29.C42
Gene No.	32286	Strand	-
Start	224	End	1438
Name	OJ990517_12.9A29.C42.o1.gs	Method	GENSCAN
Start	363	End	750
GI	none	Score	.97
Exons	363..750		
Seq. No.	15193	Seq. ID	OJ990517_12.9A29.C43
Gene No.	32287	Strand	+
Start	18	End	6135

Name	OJ990517_12.9A29.C43.o1.gs	Method	GENSCAN
Start	18	End	6014
GI	none	Score	.72
Exons	18..136, 1006..1165, 1195..1304, 1627..1732, 1889..2019, 3448..3536, 4304..4355, 4903..4969, 5281..5451, 5565..5658, 5748..5827, 5942..6014		

Seq. No.	15193	Seq. ID	OJ990517_12.9A29.C43
Gene No.	32287	Strand	+
Start	18	End	6135
Name	OJ990517_12.9A29.C43.o1.tm	Method	TBLASTX:Maize
Start	3234	End	4741
GI	none	Score	189
Exons	3234..3359, 3237..3368, 3242..3361, 3435..3539, 3446..3535, 4093..4206, 4100..4207, 4102..4206, 4103..4207, 4301..4354, 4302..4358, 4330..4374, 4640..4741, 4651..4737		

Seq. No.	15193	Seq. ID	OJ990517_12.9A29.C43
Gene No.	32287	Strand	+
Start	18	End	6135
Name	OJ990517_12.9A29.C43.o1.ts	Method	TBLASTX:Soybean
Start	3248	End	4358
GI	none	Score	124
Exons	3248..3361, 3248..3379, 3249..3368, 3435..3539, 3446..3538, 4093..4206, 4108..4194, 4265..4342, 4299..4358		

Seq. No.	15193	Seq. ID	OJ990517_12.9A29.C43
Gene No.	32287	Strand	+
Start	18	End	6135
Name	OJ990517_12.9A29.C43.o1.tc	Method	TBLASTX:Cress
Start	5377	End	6135
GI	none	Score	111
Exons	5377..5457, 5403..5447, 5564..5656, 5565..5684, 5750..5824, 5752..5826, 5945..6013, 5956..6012, 6078..6134, 6091..6135		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32288	Strand	+
Start	1	End	1547
Name	OJ990517_12.9A29.C44.o1.np	Method	AAT/NAP
Start	1	End	1547
GI	4680186	Score	160
Exons	1..80, 1346..1547		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32289	Strand	+
Start	1866	End	6925
Name	OJ990517_12.9A29.C44.o1.gs	Method	GENSCAN
Start	1866	End	6922
GI	none	Score	.79
Exons	1866..1948, 1963..2169, 3140..3225, 3297..3454, 3541..3704, 3930..4846, 5005..5291, 5386..5604, 5691..5847, 6618..6922		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32289	Strand	+
Start	1866	End	6925
Name	OJ990517_12.9A29.C44.o1.gp	Method	AAT/GAP

Start	3822	End	4430
GI	none	Score	1007
Exons	3822..4430		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32289	Strand	+
Start	1866	End	6925
Name	OJ990517_12.9A29.C44.o2.gp	Method	AAT/GAP
Start	5684	End	6925
GI	969005	Score	642
Exons	5684..5847, 6618..6925		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32290	Strand	+
Start	8817	End	10598
Name	OJ990517_12.9A29.C44.o2.tc	Method	TBLASTX:Cress
Start	4174	End	4449
GI	none	Score	206
Exons	4174..4449, 4176..4283, 4329..4448		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32290	Strand	+
Start	8817	End	10598
Name	OJ990517_12.9A29.C44.o1.tm	Method	TBLASTX:Maize
Start	5183	End	6915
GI	none	Score	82
Exons	5183..5233, 5184..5234, 5238..5291, 5373..5603, 5379..5603, 5386..5607, 5690..5851, 5691..5849, 6609..6701, 6613..6702, 6616..6723, 6617..6724, 6617..6724, 6728..6901, 6731..6910, 6732..6905, 6733..6915		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32290	Strand	+
Start	8817	End	10598
Name	OJ990517_12.9A29.C44.o1.tw	Method	TBLASTX:Wheat
Start	5526	End	6705
GI	none	Score	91
Exons	5526..5603, 5527..5607, 5527..5604, 5689..5847, 5690..5851, 5691..5861, 6612..6698, 6613..6699, 6616..6705, 6617..6703		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32290	Strand	+
Start	8817	End	10598
Name	OJ990517_12.9A29.C44.o1.tc	Method	TBLASTX:Cress
Start	5566	End	5851
GI	none	Score	51
Exons	5566..5607, 5691..5849, 5693..5851		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32290	Strand	+
Start	8817	End	10598
Name	OJ990517_12.9A29.C44.o3.np	Method	AAT/NAP
Start	8539	End	10598
GI	6358799	Score	251
Exons	8539..8563, 9324..9695, 9801..10157, 10206..10423, 10566..10598		
GI Descrip.	(AC010675) unknown protein [Arabidopsis thaliana]		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32290	Strand	+
Start	8817	End	10598
Name	OJ990517_12.9A29.C44.o2.gs	Method	GENSCAN
Start	8817	End	10551
GI	none	Score	.62
Exons	8817..9117, 9273..10551		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32290	Strand	+
Start	8817	End	10598
Name	OJ990517_12.9A29.C44.o2.np	Method	AAT/NAP
Start	8919	End	10598
GI	2943742	Score	44
Exons	8919..9103, 10581..10598		
GI Descrip.	(AB002266) XA1 [Oryza sativa]		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32290	Strand	+
Start	8817	End	10598
Name	OJ990517_12.9A29.C44.o2.tm	Method	TBLASTX:Maize
Start	10030	End	10396
GI	none	Score	403
Exons	10030..10392, 10031..10396		

Seq. No.	15194	Seq. ID	OJ990517_12.9A29.C44
Gene No.	32290	Strand	+
Start	8817	End	10598
Name	OJ990517_12.9A29.C44.o3.tm	Method	TBLASTX:Maize
Start	10398	End	10597
GI	none	Score	77
Exons	10398..10472, 10402..10473, 10402..10473, 10472..10594, 10481..10597, 10488..10595		

Seq. No.	15195	Seq. ID	OJ990517_12.9A29.C46
Gene No.	32291	Strand	-
Start	1	End	747
Name	OJ990517_12.9A29.C46.o1.np	Method	AAT/NAP
Start	1	End	747
GI	5441880	Score	643
Exons	1..104, 204..544, 650..747		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	15195	Seq. ID	OJ990517_12.9A29.C46
Gene No.	32291	Strand	-
Start	1	End	747
Name	OJ990517_12.9A29.C46.o1.gs	Method	GENSCAN
Start	328	End	544
GI	none	Score	.49
Exons	328..544		

Seq. No.	15196	Seq. ID	OJ990517_12.9A29.C47
Gene No.	32292	Strand	-
Start	1	End	247
Name	OJ990517_12.9A29.C47.o1.gp	Method	AAT/GAP

Start	1	End	247
GI	none	Score	419
Exons	1..247		

Seq. No.	15196	Seq. ID	OJ990517_12.9A29.C47
Gene No.	32293	Strand	-
Start	149	End	470
Name	OJ990517_12.9A29.C47.o1.gs	Method	GENSCAN
Start	149	End	470
GI	none	Score	.81
Exons	149..470		

Seq. No.	15197	Seq. ID	OJ990517_12.9A29.C48
Gene No.	32294	Strand	+
Start	1	End	329
Name	OJ990517_12.9A29.C48.o1.gp	Method	AAT/GAP
Start	1	End	329
GI	none	Score	603
Exons	1..329		

Seq. No.	15198	Seq. ID	OJ990517_12.9A29.C49
Gene No.	32295	Strand	+
Start	1	End	548
Name	OJ990517_12.9A29.C49.o1.np	Method	AAT/NAP
Start	1	End	548
GI	6721512	Score	177
Exons	1..200, 228..360, 403..548		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	15198	Seq. ID	OJ990517_12.9A29.C49
Gene No.	32295	Strand	+
Start	1	End	548
Name	OJ990517_12.9A29.C49.o1.gs	Method	GENSCAN
Start	72	End	199
GI	none	Score	.76
Exons	72..199		

Seq. No.	15199	Seq. ID	OJ990517_12.9A29.C50
Gene No.	32296	Strand	-
Start	500	End	705
Name	OJ990517_12.9A29.C50.o1.gs	Method	GENSCAN
Start	500	End	705
GI	none	Score	.74
Exons	500..705		

Seq. No.	15200	Seq. ID	OJ990517_12.9A29.C51
Gene No.	32297	Strand	+
Start	1	End	464
Name	OJ990517_12.9A29.C51.o1.np	Method	AAT/NAP
Start	1	End	464
GI	4115525	Score	80
Exons	1..33, 265..464		
GI Descrip.	(AB011667) dihydroflavonol 4-reductase [Ipomoea purpurea]		

Seq. No.	15200	Seq. ID	OJ990517_12.9A29.C51
Gene No.	32297	Strand	+
Start	1	End	464

Name	OJ990517_12.9A29.C51.o1.tm	Method	TBLASTX:Maize
Start	243	End	433
GI	none	Score	245
Exons	243..431, 248..433, 264..431, 265..432		

Seq. No.	15200	Seq. ID	OJ990517_12.9A29.C51
Gene No.	32297	Strand	+
Start	1	End	464
Name	OJ990517_12.9A29.C51.o1.tw	Method	TBLASTX:Wheat
Start	264	End	440
GI	none	Score	182
Exons	264..440, 264..413		

Seq. No.	15200	Seq. ID	OJ990517_12.9A29.C51
Gene No.	32297	Strand	+
Start	1	End	464
Name	OJ990517_12.9A29.C51.o1.gs	Method	GENSCAN
Start	265	End	431
GI	none	Score	.57
Exons	265..431		

Seq. No.	15201	Seq. ID	OJ990517_12.9A29.C52
Gene No.	32298	Strand	+
Start	1	End	719
Name	OJ990517_12.9A29.C52.o1.np	Method	AAT/NAP
Start	1	End	719
GI	4850399	Score	86
Exons	1..134, 403..507, 699..719		
GI Descrip.	(AC007357) F3F19.18 [Arabidopsis thaliana]		

Seq. No.	15202	Seq. ID	OJ990517_12.9A29.C54
Gene No.	32299	Strand	+
Start	352	End	624
Name	OJ990517_12.9A29.C54.o1.gp	Method	AAT/GAP
Start	352	End	624
GI	25545_1.R1084	Score	539
Exons	352..624		
GI Descrip.	'1170619/sp|Q07970|KATA_ARATH 5.0e-47 KINESIN-LIKE PROTEIN A >gi_479594_pir__S34830 kinesin-related protein katA - Arabidopsis thaliana >gi_303502_dbj_BAA01972_ (D11371) kinesin-like motor protein heavy chain [Arabidopsis thaliana] >gi_2911084_emb_CAA17546.1_ (AL021960) kinesin-related protein katA [Arabidopsis thaliana]'		

Seq. No.	15202	Seq. ID	OJ990517_12.9A29.C54
Gene No.	32300	Strand	-
Start	148	End	417
Name	OJ990517_12.9A29.C54.o1.gs	Method	GENSCAN
Start	148	End	417
GI	none	Score	.79
Exons	148..291, 337..417		

Seq. No.	15203	Seq. ID	OJ990517_12.9A29.C55
Gene No.	32301	Strand	-
Start	123	End	301
Name	OJ990517_12.9A29.C55.o1.gs	Method	GENSCAN
Start	123	End	301

GI	none	Score	.61
Exons	123..301		

Seq. No.	15204	Seq. ID	OJ990517_12.9A29.C56
Gene No.	32302	Strand	+
Start	357	End	443
Name	OJ990517_12.9A29.C56.o2.np	Method	AAT/NAP
Start	357	End	443
GI	6721561	Score	82
Exons	357..443		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	15204	Seq. ID	OJ990517_12.9A29.C56
Gene No.	32303	Strand	-
Start	235	End	785
Name	OJ990517_12.9A29.C56.o1.np	Method	AAT/NAP
Start	235	End	785
GI	4680183	Score	133
Exons	235..324, 702..785		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	15205	Seq. ID	OJ990517_12.9A29.C57
Gene No.	32304	Strand	+
Start	61	End	128
Name	OJ990517_12.9A29.C57.o1.gp	Method	AAT/GAP
Start	61	End	128
GI	2312838	Score	67
Exons	61..128		
GI Descrip.	1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	15205	Seq. ID	OJ990517_12.9A29.C57
Gene No.	32305	Strand	+
Start	936	End	1268
Name	OJ990517_12.9A29.C57.o1.gs	Method	GENSCAN
Start	936	End	1268
GI	none	Score	.51
Exons	936..1268		

Seq. No.	15205	Seq. ID	OJ990517_12.9A29.C57
Gene No.	32305	Strand	+
Start	936	End	1268
Name	OJ990517_12.9A29.C57.o1.tm	Method	TBLASTX:Maize
Start	1017	End	1195
GI	none	Score	188
Exons	1017..1193, 1040..1195		

Seq. No.	15206	Seq. ID	OJ990517_12.9A29.C58
Gene No.	32306	Strand	+
Start	291	End	551
Name	OJ990517_12.9A29.C58.o1.np	Method	AAT/NAP
Start	291	End	551
GI	119714	Score	73

Exons	291..551		
GI Descrip.	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) gi|82169|pir||S06733 hydroxyproline-rich glycoprotein precursor - common tobacco gi|19867|emb|CAA32090| (X13885) extensin (AA 1-620) [Nicotiana tabacum]		
Seq. No.	15207	Seq. ID	OJ990517_12.9A29.C60
Gene No.	32307	Strand	-
Start	45	End	259
Name	OJ990517_12.9A29.C60.o1.gs	Method	GENSCAN
Start	45	End	259
GI	none	Score	.68
Exons	45..259		
Seq. No.	15208	Seq. ID	OJ990517_12.9A29.C61
Gene No.	32308	Strand	-
Start	48	End	480
Name	OJ990517_12.9A29.C61.o1.gs	Method	GENSCAN
Start	48	End	432
GI	none	Score	.74
Exons	48..432		
Seq. No.	15208	Seq. ID	OJ990517_12.9A29.C61
Gene No.	32308	Strand	-
Start	48	End	480
Name	OJ990517_12.9A29.C61.o1.gp	Method	AAT/GAP
Start	159	End	480
GI	3758958	Score	525
Exons	159..480		
Seq. No.	15209	Seq. ID	OJ990517_12.9A29.C62
Gene No.	32309	Strand	+
Start	179	End	277
Name	OJ990517_12.9A29.C62.o1.gs	Method	GENSCAN
Start	179	End	277
GI	none	Score	.74
Exons	179..277		
Seq. No.	15210	Seq. ID	OJ990517_12.9A29.C66
Gene No.	32310	Strand	-
Start	282	End	353
Name	OJ990517_12.9A29.C66.o1.gs	Method	GENSCAN
Start	282	End	353
GI	none	Score	.84
Exons	282..353		
Seq. No.	15211	Seq. ID	OJ990517_12.9A29.C69
Gene No.	32311	Strand	+
Start	1	End	263
Name	OJ990517_12.9A29.C69.o1.np	Method	AAT/NAP
Start	1	End	242
GI	1931654	Score	204
Exons	1..242		
GI Descrip.	(U95973) BRCA1-associated RING domain protein isolog [Arabidopsis thaliana]		
Seq. No.	15211	Seq. ID	OJ990517_12.9A29.C69

Gene No.	32311	Strand	+
Start	1	End	263
Name	OJ990517_12.9A29.C69.o1.tm	Method	TBLASTX:Maize
Start	1	End	263
GI	none	Score	361
Exons	1..243, 1..243, 3..263		

Seq. No.	15211	Seq. ID	OJ990517_12.9A29.C69
Gene No.	32311	Strand	+
Start	1	End	263
Name	OJ990517_12.9A29.C69.o1.gs	Method	GENSCAN
Start	121	End	242
GI	none	Score	.76
Exons	121..242		

Seq. No.	15212	Seq. ID	OJ990517_12.9A29.C72
Gene No.	32312	Strand	+
Start	1	End	206
Name	OJ990517_12.9A29.C72.o1.gp	Method	AAT/GAP
Start	1	End	206
GI	3758959	Score	368
Exons	1..206		

Seq. No.	15213	Seq. ID	OJ990517_12.9A29.C73
Gene No.	32313	Strand	-
Start	39	End	398
Name	OJ990517_12.9A29.C73.o1.gs	Method	GENSCAN
Start	39	End	398
GI	none	Score	.91
Exons	39..236, 393..398		

Seq. No.	15214	Seq. ID	OJ990517_12.9A29.C74
Gene No.	32314	Strand	-
Start	516	End	599
Name	OJ990517_12.9A29.C74.o1.gs	Method	GENSCAN
Start	516	End	599
GI	none	Score	.56
Exons	516..599		

Seq. No.	15215	Seq. ID	OJ990517_12.9A29.C75
Gene No.	32315	Strand	-
Start	1	End	888
Name	OJ990517_12.9A29.C75.o1.np	Method	AAT/NAP
Start	1	End	888
GI	6465806	Score	105
Exons	1..202, 772..888		
GI Descrip.	(AJ130878) GCN4-complementing protein (GCP1) [Arabidopsis thaliana]		

Seq. No.	15215	Seq. ID	OJ990517_12.9A29.C75
Gene No.	32315	Strand	-
Start	1	End	888
Name	OJ990517_12.9A29.C75.o1.gs	Method	GENSCAN
Start	69	End	190
GI	none	Score	.42
Exons	69..190		

Seq. No.	15216	Seq. ID	OJ990517_12.9A29.C76
Gene No.	32316	Strand	-
Start	200	End	472
Name	OJ990517_12.9A29.C76.o1.gs	Method	GENSCAN
Start	200	End	472
GI	none	Score	.42
Exons	200..472		

Seq. No.	15217	Seq. ID	OJ990517_12.9A29.C77
Gene No.	32317	Strand	+
Start	283	End	486
Name	OJ990517_12.9A29.C77.o1.tm	Method	TBLASTX:Maize
Start	281	End	486
GI	none	Score	108
Exons	281..388, 282..389, 282..389, 283..426, 301..414, 397..486, 405..485		

Seq. No.	15217	Seq. ID	OJ990517_12.9A29.C77
Gene No.	32317	Strand	+
Start	283	End	486
Name	OJ990517_12.9A29.C77.o1.gs	Method	GENSCAN
Start	283	End	396
GI	none	Score	.87
Exons	283..396		

Seq. No.	15218	Seq. ID	OJ990517_12.9A29.C78
Gene No.	32318	Strand	+
Start	105	End	474
Name	OJ990517_12.9A29.C78.o1.gs	Method	GENSCAN
Start	105	End	474
GI	none	Score	.69
Exons	105..146, 243..314, 412..474		

Seq. No.	15219	Seq. ID	OJ990517_12.9A29.C79
Gene No.	32319	Strand	-
Start	1	End	582
Name	OJ990517_12.9A29.C79.o1.gp	Method	AAT/GAP
Start	1	End	158
GI	21070_1.R1084	Score	211
Exons	1..158		
GI Descrip.	'4928460/gb|AAD33596.1|AF133127_1 6.0e-28 (AF133127) thioredoxin h [Hevea brasiliensis]'		

Seq. No.	15219	Seq. ID	OJ990517_12.9A29.C79
Gene No.	32319	Strand	-
Start	1	End	582
Name	OJ990517_12.9A29.C79.o1.np	Method	AAT/NAP
Start	1	End	582
GI	4928460	Score	96
Exons	1..158, 496..582		
GI Descrip.	(AF133127) thioredoxin h [Hevea brasiliensis]		

Seq. No.	15219	Seq. ID	OJ990517_12.9A29.C79
Gene No.	32319	Strand	-
Start	1	End	582
Name	OJ990517_12.9A29.C79.o1.tm	Method	TBLASTX:Maize
Start	32	End	170

GI	none	Score	151
Exons	32..166, 33..170, 33..158, 53..166		

Seq. No.	15219	Seq. ID	OJ990517_12.9A29.C79
Gene No.	32319	Strand	-
Start	1	End	582
Name	OJ990517_12.9A29.C79.o1.gs	Method	GENSCAN
Start	36	End	113
GI	none	Score	.75
Exons	36..113		

Seq. No.	15220	Seq. ID	OJ990517_12.9A29.C81
Gene No.	32320	Strand	+
Start	155	End	282
Name	OJ990517_12.9A29.C81.o1.np	Method	AAT/NAP
Start	155	End	282
GI	3402679	Score	81
Exons	155..282		
GI Descrip.	(AC004697) unknown protein [Arabidopsis thaliana]		

Seq. No.	15221	Seq. ID	OJ990517_12.9A29.C84
Gene No.	32321	Strand	+
Start	380	End	434
Name	OJ990517_12.9A29.C84.o1.gp	Method	AAT/GAP
Start	380	End	434
GI	3107662	Score	89
Exons	380..434		

Seq. No.	15222	Seq. ID	OJ990517_12.9A29.C92
Gene No.	32322	Strand	-
Start	255	End	742
Name	OJ990517_12.9A29.C92.o1.np	Method	AAT/NAP
Start	255	End	742
GI	5295955	Score	153
Exons	255..384, 688..742		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	15223	Seq. ID	OJ990517_11.9A01.C1
Gene No.	32323	Strand	+
Start	633	End	1214
Name	OJ990517_11.9A01.C1.o1.gs	Method	GENSCAN
Start	633	End	1214
GI	none	Score	.75
Exons	633..1214		

Seq. No.	15224	Seq. ID	OJ990517_11.9A01.C2
Gene No.	32324	Strand	+
Start	145	End	655
Name	OJ990517_11.9A01.C2.o1.gs	Method	GENSCAN
Start	145	End	655
GI	none	Score	.48
Exons	145..334, 558..655		

Seq. No.	15224	Seq. ID	OJ990517_11.9A01.C2
Gene No.	32325	Strand	+
Start	557	End	899

Name	OJ990517_11.9A01.C2.o1.gp	Method	AAT/GAP
Start	557	End	899
GI	uC-osroM202024h08a1	Score	87
Exons	557..627, 877..899		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 5.0e-84 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	15224	Seq. ID	OJ990517_11.9A01.C2
Gene No.	32326	Strand	-
Start	4	End	387
Name	OJ990517_11.9A01.C2.o1.np	Method	AAT/NAP
Start	4	End	387
GI	5852180	Score	206
Exons	4..387		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	15225	Seq. ID	OJ990517_11.9A01.C3
Gene No.	32327	Strand	-
Start	1	End	822
Name	OJ990517_11.9A01.C3.o1.np	Method	AAT/NAP
Start	1	End	822
GI	5295955	Score	129
Exons	1..55, 708..822		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	15226	Seq. ID	OJ990517_11.9A01.C4
Gene No.	32328	Strand	+
Start	212	End	337
Name	OJ990517_11.9A01.C4.o1.gs	Method	GENSCAN
Start	212	End	337
GI	none	Score	.41
Exons	212..337		

Seq. No.	15227	Seq. ID	OJ990517_11.9A01.C5
Gene No.	32329	Strand	+
Start	1	End	167
Name	OJ990517_11.9A01.C5.o1.gp	Method	AAT/GAP
Start	1	End	167
GI	uC-osflcyp033a04b1	Score	296
Exons	1..167		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	15227	Seq. ID	OJ990517_11.9A01.C5
Gene No.	32330	Strand	-
Start	1	End	702
Name	OJ990517_11.9A01.C5.o1.np	Method	AAT/NAP
Start	1	End	702
GI	5852180	Score	63
Exons	1..77, 658..702		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	15228	Seq. ID	OJ990517_11.9A01.C6
Gene No.	32331	Strand	+
Start	1	End	1139
Name	OJ990517_11.9A01.C6.o1.np	Method	AAT/NAP

Start	1	End	1139
GI	5295955	Score	194
Exons	1..34, 463..583, 866..1139		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	15228	Seq. ID	OJ990517_11.9A01.C6
Gene No.	32331	Strand	+
Start	1	End	1139
Name	OJ990517_11.9A01.C6.o1.gs	Method	GENSCAN
Start	559	End	1029
GI	none	Score	.73
Exons	559..669, 730..849, 906..1029		

Seq. No.	15229	Seq. ID	OJ990517_11.9A01.C7
Gene No.	32332	Strand	-
Start	304	End	445
Name	OJ990517_11.9A01.C7.o1.tm	Method	TBLASTX:Maize
Start	137	End	352
GI	none	Score	183
Exons	137..352, 181..348		

Seq. No.	15229	Seq. ID	OJ990517_11.9A01.C7
Gene No.	32332	Strand	-
Start	304	End	445
Name	OJ990517_11.9A01.C7.o1.gs	Method	GENSCAN
Start	304	End	445
GI	none	Score	.53
Exons	304..445		

Seq. No.	15230	Seq. ID	OJ990517_11.9A01.C8
Gene No.	32333	Strand	+
Start	494	End	627
Name	OJ990517_11.9A01.C8.o1.gs	Method	GENSCAN
Start	494	End	627
GI	none	Score	.58
Exons	494..627		

Seq. No.	15230	Seq. ID	OJ990517_11.9A01.C8
Gene No.	32334	Strand	-
Start	1458	End	3114
Name	OJ990517_11.9A01.C8.o2.gs	Method	GENSCAN
Start	1458	End	3114
GI	none	Score	.42
Exons	1458..2714, 2881..2896, 2937..3114		

Seq. No.	15231	Seq. ID	OJ990517_11.9A01.C9
Gene No.	32335	Strand	-
Start	54	End	660
Name	OJ990517_11.9A01.C9.o1.gs	Method	GENSCAN
Start	54	End	660
GI	none	Score	.6
Exons	54..660		

Seq. No.	15232	Seq. ID	OJ990517_11.9A01.C10
Gene No.	32336	Strand	+
Start	1	End	314

Name	OJ990517_11.9A01.C10.o1.gp	Method	AAT/GAP
Start	1	End	314
GI	uC-osflcyp033a04b1	Score	497
Exons	1..314		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	15233	Seq. ID	OJ990517_11.9A01.C11
Gene No.	32337	Strand	-
Start	567	End	617
Name	OJ990517_11.9A01.C11.o1.gs	Method	GENSCAN
Start	567	End	617
GI	none	Score	.92
Exons	567..617		

Seq. No.	15234	Seq. ID	OJ990517_11.9A01.C12
Gene No.	32338	Strand	+
Start	1	End	952
Name	OJ990517_11.9A01.C12.o1.np	Method	AAT/NAP
Start	1	End	603
GI	5852180	Score	272
Exons	1..79, 225..603		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	15234	Seq. ID	OJ990517_11.9A01.C12
Gene No.	32338	Strand	+
Start	1	End	952
Name	OJ990517_11.9A01.C12.o1.gs	Method	GENSCAN
Start	290	End	952
GI	none	Score	.71
Exons	290..564, 763..952		

Seq. No.	15235	Seq. ID	OJ990517_11.9A01.C13
Gene No.	32339	Strand	-
Start	72	End	744
Name	OJ990517_11.9A01.C13.o1.np	Method	AAT/NAP
Start	72	End	744
GI	6063554	Score	222
Exons	72..246, 662..744		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	15236	Seq. ID	OJ990517_11.9A01.C17
Gene No.	32340	Strand	
Start	44	End	456
Name	OJ990517_11.9A01.C17.o1.tm	Method	TBLASTX:Maize
Start	44	End	456
GI	none	Score	71
Exons	44..133, 52..456, 88..132, 130..453		

Seq. No.	15237	Seq. ID	OJ990517_11.9A01.C19
Gene No.	32341	Strand	+
Start	480	End	1794
Name	OJ990517_11.9A01.C19.o1.np	Method	AAT/NAP
Start	480	End	1794
GI	5902445	Score	384

Exons	480..870, 1666..1794		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	15237	Seq. ID	OJ990517_11.9A01.C19
Gene No.	32341	Strand	+
Start	480	End	1794
Name	OJ990517_11.9A01.C19.o1.gs	Method	GENSCAN
Start	570	End	1446
GI	none	Score	.43
Exons	570..882, 1328..1446		
Seq. No.	15237	Seq. ID	OJ990517_11.9A01.C19
Gene No.	32342	Strand	-
Start	198	End	477
Name	OJ990517_11.9A01.C19.o1.gp	Method	AAT/GAP
Start	198	End	477
GI	61605_3.R1084	Score	306
Exons	198..477		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		
Seq. No.	15237	Seq. ID	OJ990517_11.9A01.C19
Gene No.	32343	Strand	-
Start	1159	End	1794
Name	OJ990517_11.9A01.C19.o1.tw	Method	TBLASTX:Wheat
Start	507	End	869
GI	none	Score	378
Exons	507..869, 540..749, 716..853		
Seq. No.	15237	Seq. ID	OJ990517_11.9A01.C19
Gene No.	32343	Strand	-
Start	1159	End	1794
Name	OJ990517_11.9A01.C19.o1.tm	Method	TBLASTX:Maize
Start	621	End	869
GI	none	Score	198
Exons	621..869, 629..868		
Seq. No.	15237	Seq. ID	OJ990517_11.9A01.C19
Gene No.	32343	Strand	-
Start	1159	End	1794
Name	OJ990517_11.9A01.C19.o2.np	Method	AAT/NAP
Start	1159	End	1794
GI	5295955	Score	211
Exons	1159..1794		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		
Seq. No.	15238	Seq. ID	OJ990517_11.9A01.C20
Gene No.	32344	Strand	-
Start	1	End	1179
Name	OJ990517_11.9A01.C20.o1.np	Method	AAT/NAP
Start	1	End	1179
GI	5295955	Score	186
Exons	1..86, 334..448, 991..1179		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	15238	Seq. ID	OJ990517_11.9A01.C20
Gene No.	32344	Strand	-
Start	1	End	1179
Name	OJ990517_11.9A01.C20.o1.gs	Method	GENSCAN
Start	334	End	1060
GI	none	Score	.42
Exons	334..512, 923..1060		

Seq. No.	15239	Seq. ID	OJ990517_11.9A01.C21
Gene No.	32345	Strand	+
Start	1	End	5874
Name	OJ990517_11.9A01.C21.o1.np	Method	AAT/NAP
Start	1	End	5874
GI	5902445	Score	964
Exons	1..89, 493..1037, 3847..4495, 4537..4764, 5827..5874		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	15239	Seq. ID	OJ990517_11.9A01.C21
Gene No.	32345	Strand	+
Start	1	End	5874
Name	OJ990517_11.9A01.C21.o1.gs	Method	GENSCAN
Start	234	End	1088
GI	none	Score	.56
Exons	234..270, 536..1088		

Seq. No.	15239	Seq. ID	OJ990517_11.9A01.C21
Gene No.	32345	Strand	+
Start	1	End	5874
Name	OJ990517_11.9A01.C21.o2.gs	Method	GENSCAN
Start	1910	End	3197
GI	none	Score	.63
Exons	1910..1988, 2633..2840, 2918..3197		

Seq. No.	15239	Seq. ID	OJ990517_11.9A01.C21
Gene No.	32345	Strand	+
Start	1	End	5874
Name	OJ990517_11.9A01.C21.o1.gp	Method	AAT/GAP
Start	2475	End	2541
GI	uC-osroM202024h08a1	Score	83
Exons	2475..2541		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 5.0e-84 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	15239	Seq. ID	OJ990517_11.9A01.C21
Gene No.	32345	Strand	+
Start	1	End	5874
Name	OJ990517_11.9A01.C21.o3.gs	Method	GENSCAN
Start	4168	End	4794
GI	none	Score	.99
Exons	4168..4794		

Seq. No.	15239	Seq. ID	OJ990517_11.9A01.C21
Gene No.	32346	Strand	-
Start	5414	End	5874
Name	OJ990517_11.9A01.C21.o1.tw	Method	TBLASTX:Wheat
Start	509	End	869
GI	none	Score	312

Exons	509..859, 510..869		
Seq. No.	15239	Seq. ID	OJ990517_11.9A01.C21
Gene No.	32346	Strand	-
Start	5414	End	5874
Name	OJ990517_11.9A01.C21.o1.ts	Method	TBLASTX:Soybean
Start	510	End	848
GI	none	Score	210
Exons	510..848		
Seq. No.	15239	Seq. ID	OJ990517_11.9A01.C21
Gene No.	32346	Strand	-
Start	5414	End	5874
Name	OJ990517_11.9A01.C21.o1.tm	Method	TBLASTX:Maize
Start	519	End	863
GI	none	Score	232
Exons	519..770, 539..748, 789..863		
Seq. No.	15239	Seq. ID	OJ990517_11.9A01.C21
Gene No.	32346	Strand	-
Start	5414	End	5874
Name	OJ990517_11.9A01.C21.o2.tw	Method	TBLASTX:Wheat
Start	939	End	4151
GI	none	Score	80
Exons	939..1040, 3835..3972, 3840..3974, 3997..4149, 4050..4151		
Seq. No.	15239	Seq. ID	OJ990517_11.9A01.C21
Gene No.	32346	Strand	-
Start	5414	End	5874
Name	OJ990517_11.9A01.C21.o4.gs	Method	GENSCAN
Start	5414	End	5828
GI	none	Score	.83
Exons	5414..5828		
Seq. No.	15239	Seq. ID	OJ990517_11.9A01.C21
Gene No.	32346	Strand	-
Start	5414	End	5874
Name	OJ990517_11.9A01.C21.o2.np	Method	AAT/NAP
Start	5515	End	5874
GI	5852180	Score	303
Exons	5515..5874		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32347	Strand	+
Start	1	End	11613
Name	OJ990517_11.9A01.C22.o1.np	Method	AAT/NAP
Start	1	End	3631
GI	5852175	Score	64
Exons	1..103, 186..286, 3452..3631		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		
Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32347	Strand	+
Start	1	End	11613
Name	OJ990517_11.9A01.C22.o3.np	Method	AAT/NAP
Start	1	End	3082

GI	5902445	Score	696
Exons	1..64, 1113..1869, 3037..3082		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32347	Strand	+
Start	1	End	11613
Name	OJ990517_11.9A01.C22.o1.gp	Method	AAT/GAP
Start	56	End	262
GI	2428185	Score	353
Exons	56..262		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32347	Strand	+
Start	1	End	11613
Name	OJ990517_11.9A01.C22.o1.gs	Method	GENSCAN
Start	441	End	10413
GI	none	Score	.69
Exons	441..444, 1175..1482, 1519..1847, 2286..2913, 3079..3219, 5565..5782, 5972..6234, 6388..6962, 7089..8461, 8558..8831, 9047..9557, 9746..10413		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32347	Strand	+
Start	1	End	11613
Name	OJ990517_11.9A01.C22.o3.gp	Method	AAT/GAP
Start	3998	End	4381
GI	uC-osf1cyp033a04b1	Score	713
Exons	3998..4381		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32347	Strand	+
Start	1	End	11613
Name	OJ990517_11.9A01.C22.o4.np	Method	AAT/NAP
Start	5517	End	11610
GI	5922631	Score	6688
Exons	5517..5641, 5900..6168, 6436..6605, 6651..7222, 7265..7416, 7543..8469, 9084..11610		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinful-1. (AF049110) [Oryza sativ		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32347	Strand	+
Start	1	End	11613
Name	OJ990517_11.9A01.C22.o2.gs	Method	GENSCAN
Start	10813	End	11613
GI	none	Score	.91
Exons	10813..11613		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32348	Strand	-
Start	1	End	4068
Name	OJ990517_11.9A01.C22.o2.np	Method	AAT/NAP
Start	1	End	4068
GI	5852180	Score	556
Exons	1..69, 2620..3071, 3124..3241, 4037..4068		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32349	Strand	-
Start	5052	End	5817
Name	OJ990517_11.9A01.C22.o4.gp	Method	AAT/GAP
Start	5052	End	5817
GI	5816562	Score	648
Exons	5052..5470, 5792..5817		
GI Descrip.	6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o1.tm	Method	TBLASTX:Maize
Start	1113	End	10875
GI	none	Score	115
Exons	1113..1220, 1196..1264, 10512..10835, 10513..10836, 10828..10875		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o4.tw	Method	TBLASTX:Wheat
Start	1113	End	10907
GI	none	Score	77
Exons	1113..1220, 1213..1275, 1217..1345, 10516..10677, 10518..10829, 10519..10905, 10714..10905, 10860..10907		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o5.tm	Method	TBLASTX:Maize
Start	1417	End	11250
GI	none	Score	87
Exons	1417..1515, 1510..1590, 1606..1689, 10977..11075, 10978..11076, 11067..11141, 11071..11154, 11164..11250		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o3.tw	Method	TBLASTX:Wheat
Start	1465	End	11634
GI	none	Score	330
Exons	1465..1866, 1480..1653, 1614..1721, 11020..11511, 11170..11199, 11181..11384, 11503..11634		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-

Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o4.tm	Method	TBLASTX:Maize
Start	1771	End	11595
GI	none	Score	75
Exons	1771..1869, 11332..11514, 11361..11411, 11454..11513, 11493..11594, 11493..11594, 11494..11595		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o7.tw	Method	TBLASTX:Wheat
Start	6827	End	7229
GI	none	Score	288
Exons	6827..7096, 6828..7229		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o1.tw	Method	TBLASTX:Wheat
Start	7809	End	8606
GI	none	Score	136
Exons	7809..7985, 8030..8266, 8034..8264, 8313..8606, 8441..8602		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o3.ts	Method	TBLASTX:Soybean
Start	8526	End	8891
GI	none	Score	138
Exons	8526..8750, 8757..8891		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o6.tw	Method	TBLASTX:Wheat
Start	8607	End	8942
GI	none	Score	374
Exons	8607..8942, 8607..8927, 8627..8941		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o3.tm	Method	TBLASTX:Maize
Start	8616	End	8957
GI	none	Score	339
Exons	8616..8957, 8657..8950		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o2.tw	Method	TBLASTX:Wheat
Start	9065	End	9489
GI	none	Score	427
Exons	9065..9484, 9109..9489		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-

Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o1.ts	Method	TBLASTX:Soybean
Start	9143	End	9517
GI	none	Score	307
Exons	9143..9517, 9160..9303, 9340..9510		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o2.tm	Method	TBLASTX:Maize
Start	9211	End	9655
GI	none	Score	273
Exons	9211..9465, 9212..9466, 9212..9469, 9488..9631, 9629..9655		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o8.tw	Method	TBLASTX:Wheat
Start	9494	End	9777
GI	none	Score	183
Exons	9494..9676, 9503..9601, 9682..9774, 9682..9777		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o2.ts	Method	TBLASTX:Soybean
Start	9769	End	10157
GI	none	Score	87
Exons	9769..9873, 9777..9863, 9909..10157, 9913..10155		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o5.tw	Method	TBLASTX:Wheat
Start	9778	End	10209
GI	none	Score	402
Exons	9778..10209, 9783..10124		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o6.tm	Method	TBLASTX:Maize
Start	9832	End	10104
GI	none	Score	120
Exons	9832..10002, 10006..10104		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o10.tw	Method	TBLASTX:Wheat
Start	10216	End	10515
GI	none	Score	130
Exons	10216..10350, 10219..10359, 10389..10490, 10417..10515		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907

Name	OJ990517_11.9A01.C22.o3.gs	Method	GENSCAN
Start	11976	End	14295
GI	none	Score	.78
Exons	11976..12427, 12501..12605, 12677..12866, 12941..13083, 13206..13564, 13647..13876, 14023..14295		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o5.np	Method	AAT/NAP
Start	11979	End	14907
GI	6691716	Score	2384
Exons	11979..12427, 12501..12615, 12765..12866, 12941..13128, 13206..13385, 13462..13564, 13647..13821, 14013..14907		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	15240	Seq. ID	OJ990517_11.9A01.C22
Gene No.	32350	Strand	-
Start	11976	End	14907
Name	OJ990517_11.9A01.C22.o9.tw	Method	TBLASTX:Wheat
Start	14497	End	14787
GI	none	Score	193
Exons	14497..14787		

Seq. No.	15241	Seq. ID	OJ990517_11.9A01.C23
Gene No.	32351	Strand	+
Start	1	End	2201
Name	OJ990517_11.9A01.C23.o2.np	Method	AAT/NAP
Start	1	End	2201
GI	5042454	Score	163
Exons	1..68, 1966..2201		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	15241	Seq. ID	OJ990517_11.9A01.C23
Gene No.	32352	Strand	-
Start	1	End	535
Name	OJ990517_11.9A01.C23.o1.np	Method	AAT/NAP
Start	1	End	535
GI	5902448	Score	784
Exons	1..535		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	15241	Seq. ID	OJ990517_11.9A01.C23
Gene No.	32352	Strand	-
Start	1	End	535
Name	OJ990517_11.9A01.C23.o1.gs	Method	GENSCAN
Start	144	End	535
GI	none	Score	.77
Exons	144..535		

Seq. No.	15241	Seq. ID	OJ990517_11.9A01.C23
Gene No.	32353	Strand	-
Start	1573	End	1993
Name	OJ990517_11.9A01.C23.o1.gp	Method	AAT/GAP
Start	1573	End	1993

GI	5816562	Score	643
Exons	1573..1993		
GI Descrip.	6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	15241	Seq. ID	OJ990517_11.9A01.C23
Gene No.	32354	Strand	-
Start	2812	End	4839
Name	OJ990517_11.9A01.C23.o1.tw	Method	TBLASTX:Wheat
Start	125	End	415
GI	none	Score	193
Exons	125..415		

Seq. No.	15241	Seq. ID	OJ990517_11.9A01.C23
Gene No.	32354	Strand	-
Start	2812	End	4839
Name	OJ990517_11.9A01.C23.o2.gs	Method	GENSCAN
Start	2812	End	4789
GI	none	Score	.66
Exons	2812..3329, 3428..3579, 3704..4224, 4276..4373, 4425..4596, 4752..4789		

Seq. No.	15241	Seq. ID	OJ990517_11.9A01.C23
Gene No.	32354	Strand	-
Start	2812	End	4839
Name	OJ990517_11.9A01.C23.o3.np	Method	AAT/NAP
Start	3646	End	4596
GI	6721561	Score	700
Exons	3646..4596		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	15241	Seq. ID	OJ990517_11.9A01.C23
Gene No.	32354	Strand	-
Start	2812	End	4839
Name	OJ990517_11.9A01.C23.o4.np	Method	AAT/NAP
Start	3761	End	4839
GI	6721558	Score	97
Exons	3761..3869, 4568..4839		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32355	Strand	+
Start	2379	End	12239
Name	OJ990517_11.9A01.C24.o2.gs	Method	GENSCAN
Start	2379	End	12239
GI	none	Score	.58
Exons	2379..2587, 3548..3749, 3945..4114, 5836..5978, 6102..6279, 6953..7520, 8513..8625, 10099..10276, 12012..12239		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32355	Strand	+

Start	2379	End	12239
Name	OJ990517_11.9A01.C24.o1.gp	Method	AAT/GAP
Start	7152	End	8629
GI	8464_1.R1084	Score	852
Exons	7152..7520, 8513..8629		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-50 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32356	Strand	-
Start	1	End	1783
Name	OJ990517_11.9A01.C24.o1.np	Method	AAT/NAP
Start	1	End	1783
GI	6907089	Score	259
Exons	1..635, 1744..1783		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32356	Strand	-
Start	1	End	1783
Name	OJ990517_11.9A01.C24.o3.np	Method	AAT/NAP
Start	1	End	1712
GI	6721512	Score	103
Exons	1..40, 1431..1574, 1603..1712		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32356	Strand	-
Start	1	End	1783
Name	OJ990517_11.9A01.C24.o2.np	Method	AAT/NAP
Start	1	End	744
GI	6721558	Score	105
Exons	1..48, 613..744		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o2.ts	Method	TBLASTX:Soybean
Start	4050	End	6139
GI	none	Score	102
Exons	4050..4121, 4052..4114, 5833..5991, 5834..5977, 6104..6139		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o1.ts	Method	TBLASTX:Soybean
Start	6227	End	8626
GI	none	Score	73
Exons	6227..6280, 6954..7259, 6956..7231, 7334..7522, 7335..7520, 8494..8619, 8506..8625, 8513..8626		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213

Name	OJ990517_11.9A01.C24.o1.tw	Method	TBLASTX:Wheat
Start	7439	End	12053
GI	none	Score	128
Exons	7439..7522, 7440..7520, 7440..7523, 7444..7536, 8497..8550, 8513..8545, 8543..8638, 8544..8615, 8546..8626, 10013..10228, 10030..10281, 10030..10266, 10032..10277, 12006..12053		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o6.tm	Method	TBLASTX:Maize
Start	10146	End	12231
GI	none	Score	146
Exons	10146..10277, 10147..10281, 10148..10282, 12006..12197, 12009..12200, 12022..12231		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o4.tm	Method	TBLASTX:Maize
Start	13254	End	13670
GI	none	Score	46
Exons	13254..13355, 13255..13353, 13351..13416, 13356..13433, 13425..13664, 13425..13463, 13512..13670		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o4.tw	Method	TBLASTX:Wheat
Start	13305	End	13619
GI	none	Score	106
Exons	13305..13619, 13324..13545, 13362..13565		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o5.tm	Method	TBLASTX:Maize
Start	13910	End	14435
GI	none	Score	49
Exons	13910..14005, 13910..13957, 13911..14006, 13923..14006, 14008..14112, 14031..14435, 14067..14111, 14074..14112, 14109..14432		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o1.tm	Method	TBLASTX:Maize
Start	14679	End	19956
GI	none	Score	126
Exons	14679..14984, 16117..16497, 16127..16369, 16511..16801, 16537..16560, 16649..16813, 19799..19840, 19849..19956		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o2.tw	Method	TBLASTX:Wheat
Start	14697	End	16473

GI	none	Score	84
Exons	14697..14897, 16030..16080, 16180..16473, 16184..16471		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o6.np	Method	AAT/NAP
Start	15082	End	22213
GI	6069646	Score	835
Exons	15082..16050, 16339..17140, 22181..22213		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o4.gs	Method	GENSCAN
Start	15091	End	20673
GI	none	Score	.58
Exons	15091..16043, 16092..16551, 16595..16744, 16871..17671, 17690..18505, 18569..18736, 18846..18939, 19062..19354, 19434..19661, 19864..20673		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o2.tm	Method	TBLASTX:Maize
Start	16814	End	20313
GI	none	Score	129
Exons	16814..17143, 16926..17129, 19963..20313		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o3.tm	Method	TBLASTX:Maize
Start	17354	End	17743
GI	none	Score	78
Exons	17354..17743, 17403..17603		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o3.tw	Method	TBLASTX:Wheat
Start	17738	End	21250
GI	none	Score	53
Exons	17738..17896, 17927..18085, 20935..21174, 20965..21021, 21071..21250		

Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o7.tm	Method	TBLASTX:Maize
Start	17942	End	21303
GI	none	Score	41

Exons	17942..18061, 18065..18202, 21073..21162, 21238..21303		
Seq. No.	15242	Seq. ID	OJ990517_11.9A01.C24
Gene No.	32357	Strand	-
Start	15091	End	22213
Name	OJ990517_11.9A01.C24.o9.np	Method	AAT/NAP
Start	19840	End	20244
GI	2462640	Score	438
Exons	19840..20244		
GI Descrip.	(Y13370) reverse transcriptase [Oryza sativa]		
Seq. No.	15243	Seq. ID	OJ990517_11.9A01.C25
Gene No.	32358	Strand	+
Start	871	End	1031
Name	OJ990517_11.9A01.C25.o1.gs	Method	GENSCAN
Start	871	End	1031
GI	none	Score	.63
Exons	871..1031		
Seq. No.	15243	Seq. ID	OJ990517_11.9A01.C25
Gene No.	32359	Strand	-
Start	1	End	1168
Name	OJ990517_11.9A01.C25.o1.np	Method	AAT/NAP
Start	1	End	1168
GI	4559347	Score	56
Exons	1..24, 484..800, 1031..1168		
GI Descrip.	(AC006585) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	15244	Seq. ID	OJ990517_11.9A01.C26
Gene No.	32360	Strand	+
Start	1157	End	8429
Name	OJ990517_11.9A01.C26.o1.gs	Method	GENSCAN
Start	1157	End	7694
GI	none	Score	.47
Exons	1157..1456, 1690..2646, 2799..3062, 3120..3384, 3591..3673, 3738..4547, 4558..4730, 4989..5154, 5281..5352, 5982..6063, 6271..6405, 7552..7694		
Seq. No.	15244	Seq. ID	OJ990517_11.9A01.C26
Gene No.	32360	Strand	+
Start	1157	End	8429
Name	OJ990517_11.9A01.C26.o1.tw	Method	TBLASTX:Wheat
Start	6051	End	6469
GI	none	Score	345
Exons	6051..6440, 6060..6353, 6062..6469		
Seq. No.	15244	Seq. ID	OJ990517_11.9A01.C26
Gene No.	32360	Strand	+
Start	1157	End	8429
Name	OJ990517_11.9A01.C26.o1.np	Method	AAT/NAP
Start	7128	End	7532
GI	2462640	Score	466
Exons	7128..7532		
GI Descrip.	(Y13370) reverse transcriptase [Oryza sativa]		
Seq. No.	15244	Seq. ID	OJ990517_11.9A01.C26
Gene No.	32360	Strand	+

Start	1157	End	8429
Name	OJ990517_11.9A01.C26.o1.tm	Method	TBLASTX:Maize
Start	7164	End	8098
GI	none	Score	231
Exons	7164..7586, 7502..7585, 7644..7937, 7706..7936, 7926..8075, 7928..8098		

Seq. No.	15244	Seq. ID	OJ990517_11.9A01.C26
Gene No.	32360	Strand	+
Start	1157	End	8429
Name	OJ990517_11.9A01.C26.o1.ts	Method	TBLASTX:Soybean
Start	7716	End	8282
GI	none	Score	114
Exons	7716..7943, 7953..8063, 8139..8282		

Seq. No.	15244	Seq. ID	OJ990517_11.9A01.C26
Gene No.	32360	Strand	+
Start	1157	End	8429
Name	OJ990517_11.9A01.C26.o2.tw	Method	TBLASTX:Wheat
Start	8088	End	8429
GI	none	Score	264
Exons	8088..8396, 8190..8336, 8397..8429		

Seq. No.	15244	Seq. ID	OJ990517_11.9A01.C26
Gene No.	32360	Strand	+
Start	1157	End	8429
Name	OJ990517_11.9A01.C26.o2.tm	Method	TBLASTX:Maize
Start	8103	End	8429
GI	none	Score	180
Exons	8103..8285, 8118..8303, 8274..8333, 8312..8332, 8340..8429, 8353..8421		

Seq. No.	15245	Seq. ID	OJ990517_11.9A01.C27
Gene No.	32361	Strand	-
Start	838	End	1378
Name	OJ990517_11.9A01.C27.o1.gs	Method	GENSCAN
Start	838	End	1378
GI	none	Score	.43
Exons	838..911, 1165..1378		

Seq. No.	15245	Seq. ID	OJ990517_11.9A01.C27
Gene No.	32362	Strand	-
Start	2355	End	3488
Name	OJ990517_11.9A01.C27.o2.gs	Method	GENSCAN
Start	2355	End	3488
GI	none	Score	.89
Exons	2355..3488		

Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32363	Strand	+
Start	1276	End	4524
Name	OJ990517_11.9A01.C28.o1.gs	Method	GENSCAN
Start	1276	End	4524
GI	none	Score	.42
Exons	1276..1367, 1667..1871, 2023..2088, 2186..2269, 2347..2714, 2731..2974, 3491..3713, 4418..4524		

Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32364	Strand	+
Start	5797	End	7750
Name	OJ990517_11.9A01.C28.o2.np	Method	AAT/NAP
Start	5797	End	7750
GI	4680186	Score	216
Exons	5797..5818, 7546..7750		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32365	Strand	+
Start	8357	End	8744
Name	OJ990517_11.9A01.C28.o3.gs	Method	GENSCAN
Start	8357	End	8744
GI	none	Score	.4
Exons	8357..8434, 8516..8744		

Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o2.ts	Method	TBLASTX:Soybean
Start	3447	End	3697
GI	none	Score	52
Exons	3447..3488, 3452..3697, 3525..3695		

Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o1.np	Method	AAT/NAP
Start	3458	End	8921
GI	4544372	Score	1085
Exons	3458..5015, 5115..5511, 5578..6546, 8867..8921		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o3.tw	Method	TBLASTX:Wheat
Start	3473	End	3880
GI	none	Score	116
Exons	3473..3880, 3507..3872		

Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o4.tw	Method	TBLASTX:Wheat
Start	3917	End	4282
GI	none	Score	185
Exons	3917..4282		

Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o5.ts	Method	TBLASTX:Soybean
Start	3977	End	4261
GI	none	Score	183

Exons	3977..4261		
Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o2.gs	Method	GENSCAN
Start	4758	End	7292
GI	none	Score	.41
Exons	4758..5083, 5481..6278, 6823..6851, 7216..7292		
Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o3.ts	Method	TBLASTX:Soybean
Start	4876	End	5277
GI	none	Score	62
Exons	4876..5028, 4878..5072, 5040..5123, 5041..5124, 5145..5186, 5145..5210, 5191..5277, 5195..5275		
Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o1.ts	Method	TBLASTX:Soybean
Start	5428	End	5898
GI	none	Score	85
Exons	5428..5616, 5441..5572, 5611..5898, 5723..5860		
Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o2.tw	Method	TBLASTX:Wheat
Start	5515	End	5920
GI	none	Score	45
Exons	5515..5598, 5519..5587, 5593..5895, 5633..5920		
Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o1.tm	Method	TBLASTX:Maize
Start	5587	End	6045
GI	none	Score	212
Exons	5587..6045, 5588..5896, 5656..6045		
Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o1.tw	Method	TBLASTX:Wheat
Start	5929	End	6318
GI	none	Score	227
Exons	5929..6258, 5935..6267, 5957..6259, 6262..6318		
Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o2.tm	Method	TBLASTX:Maize
Start	6047	End	6264
GI	none	Score	200

Exons	6047..6259, 6049..6264, 6064..6264		
Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o4.ts	Method	TBLASTX:Soybean
Start	6115	End	6480
GI	none	Score	124
Exons	6115..6249, 6256..6480		
Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o1.gp	Method	AAT/GAP
Start	7294	End	7679
GI	uC-osflcyp033a04b1	Score	637
Exons	7294..7679		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	15246	Seq. ID	OJ990517_11.9A01.C28
Gene No.	32366	Strand	-
Start	3458	End	8921
Name	OJ990517_11.9A01.C28.o3.np	Method	AAT/NAP
Start	8147	End	8921
GI	6907087	Score	233
Exons	8147..8248, 8800..8921		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	15247	Seq. ID	OJ990517_11.9A01.C29
Gene No.	32367	Strand	-
Start	1	End	796
Name	OJ990517_11.9A01.C29.o1.np	Method	AAT/NAP
Start	1	End	796
GI	6907087	Score	413
Exons	1..94, 271..796		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	15248	Seq. ID	OJ990517_11.9A01.C30
Gene No.	32368	Strand	+
Start	121	End	735
Name	OJ990517_11.9A01.C30.o1.gs	Method	GENSCAN
Start	121	End	735
GI	none	Score	.77
Exons	121..735		
Seq. No.	15249	Seq. ID	OJ990517_11.9A01.C32
Gene No.	32369	Strand	-
Start	1	End	731
Name	OJ990517_11.9A01.C32.o1.np	Method	AAT/NAP
Start	1	End	731
GI	4680179	Score	644
Exons	1..731		

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	15249	Seq. ID	OJ990517_11.9A01.C32
Gene No.	32369	Strand	-
Start	1	End	731
Name	OJ990517_11.9A01.C32.o1.gs	Method	GENSCAN
Start	76	End	683
GI	none	Score	.85
Exons	76..683		

Seq. No.	15249	Seq. ID	OJ990517_11.9A01.C32
Gene No.	32369	Strand	-
Start	1	End	731
Name	OJ990517_11.9A01.C32.o1.tm	Method	TBLASTX:Maize
Start	176	End	490
GI	none	Score	44
Exons	176..262, 227..490, 303..467		

Seq. No.	15249	Seq. ID	OJ990517_11.9A01.C32
Gene No.	32369	Strand	-
Start	1	End	731
Name	OJ990517_11.9A01.C32.o1.tw	Method	TBLASTX:Wheat
Start	227	End	490
GI	none	Score	144
Exons	227..490, 297..467		

Seq. No.	15250	Seq. ID	OJ990517_11.9A01.C33
Gene No.	32370	Strand	+
Start	773	End	1994
Name	OJ990517_11.9A01.C33.o2.gp	Method	AAT/GAP
Start	773	End	1154
GI	uC-osf1cyp033a04b1	Score	699
Exons	773..1154		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	15250	Seq. ID	OJ990517_11.9A01.C33
Gene No.	32370	Strand	+
Start	773	End	1994
Name	OJ990517_11.9A01.C33.o1.gs	Method	GENSCAN
Start	953	End	1994
GI	none	Score	.4
Exons	953..1028, 1825..1994		

Seq. No.	15250	Seq. ID	OJ990517_11.9A01.C33
Gene No.	32371	Strand	+
Start	4336	End	4613
Name	OJ990517_11.9A01.C33.o3.gp	Method	AAT/GAP
Start	4336	End	4613
GI	61605_1.R1084	Score	470
Exons	4336..4613		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	15250	Seq. ID	OJ990517_11.9A01.C33
Gene No.	32372	Strand	-
Start	1	End	7198

Name	OJ990517_11.9A01.C33.o2.np	Method	AAT/NAP
Start	1	End	4645
GI	4680179	Score	760
Exons	1..54, 2751..3791, 4562..4645		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15250	Seq. ID	OJ990517_11.9A01.C33
Gene No.	32372	Strand	-
Start	1	End	7198
Name	OJ990517_11.9A01.C33.o1.np	Method	AAT/NAP
Start	706	End	5748
GI	4680186	Score	367
Exons	706..907, 1743..1794, 5720..5748		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	15250	Seq. ID	OJ990517_11.9A01.C33
Gene No.	32372	Strand	-
Start	1	End	7198
Name	OJ990517_11.9A01.C33.o2.gs	Method	GENSCAN
Start	2686	End	6429
GI	none	Score	.56
Exons	2686..3801, 5119..5235, 6292..6429		

Seq. No.	15250	Seq. ID	OJ990517_11.9A01.C33
Gene No.	32372	Strand	-
Start	1	End	7198
Name	OJ990517_11.9A01.C33.o1.tm	Method	TBLASTX:Maize
Start	3088	End	3402
GI	none	Score	44
Exons	3088..3174, 3139..3402, 3215..3379		

Seq. No.	15250	Seq. ID	OJ990517_11.9A01.C33
Gene No.	32372	Strand	-
Start	1	End	7198
Name	OJ990517_11.9A01.C33.o1.tw	Method	TBLASTX:Wheat
Start	3283	End	3630
GI	none	Score	77
Exons	3283..3630, 3284..3424, 3292..3432, 3466..3630		

Seq. No.	15250	Seq. ID	OJ990517_11.9A01.C33
Gene No.	32372	Strand	-
Start	1	End	7198
Name	OJ990517_11.9A01.C33.o3.np	Method	AAT/NAP
Start	4979	End	7198
GI	6063554	Score	362
Exons	4979..5153, 5793..5820, 6292..6505, 6623..6843, 7154..7198		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	15250	Seq. ID	OJ990517_11.9A01.C33
Gene No.	32372	Strand	-
Start	1	End	7198
Name	OJ990517_11.9A01.C33.o4.gp	Method	AAT/GAP
Start	5597	End	6326
GI	101153_1.R1084	Score	426
Exons	5597..5820, 6291..6326		

GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No.	15251	Seq. ID	OJ990517_11.9A01.C34
Gene No.	32373	Strand	+
Start	145	End	1938
Name	OJ990517_11.9A01.C34.o1.np	Method	AAT/NAP
Start	145	End	1938
GI	4680179	Score	1278
Exons	145..1230, 1264..1938		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15251	Seq. ID	OJ990517_11.9A01.C34
Gene No.	32373	Strand	+
Start	145	End	1938
Name	OJ990517_11.9A01.C34.o1.gs	Method	GENSCAN
Start	148	End	1795
GI	none	Score	.43
Exons	148..1795		

Seq. No.	15251	Seq. ID	OJ990517_11.9A01.C34
Gene No.	32373	Strand	+
Start	145	End	1938
Name	OJ990517_11.9A01.C34.o1.tw	Method	TBLASTX:Wheat
Start	379	End	741
GI	none	Score	296
Exons	379..741, 381..740		

Seq. No.	15251	Seq. ID	OJ990517_11.9A01.C34
Gene No.	32373	Strand	+
Start	145	End	1938
Name	OJ990517_11.9A01.C34.o1.tm	Method	TBLASTX:Maize
Start	622	End	927
GI	none	Score	229
Exons	622..927, 636..752		

Seq. No.	15251	Seq. ID	OJ990517_11.9A01.C34
Gene No.	32373	Strand	+
Start	145	End	1938
Name	OJ990517_11.9A01.C34.o2.tm	Method	TBLASTX:Maize
Start	1255	End	1608
GI	none	Score	184
Exons	1255..1608		

Seq. No.	15251	Seq. ID	OJ990517_11.9A01.C34
Gene No.	32373	Strand	+
Start	145	End	1938
Name	OJ990517_11.9A01.C34.o2.tw	Method	TBLASTX:Wheat
Start	1291	End	1728
GI	none	Score	158
Exons	1291..1500, 1347..1499, 1545..1658, 1546..1659, 1687..1728		

Seq. No.	15252	Seq. ID	OJ990517_11.9A01.C35
Gene No.	32374	Strand	+
Start	1	End	1536
Name	OJ990517_11.9A01.C35.o1.np	Method	AAT/NAP
Start	1	End	1536

GI	4680179	Score	1173
Exons	1..1065, 1499..1536		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15252	Seq. ID	OJ990517_11.9A01.C35
Gene No.	32374	Strand	+
Start	1	End	1536
Name	OJ990517_11.9A01.C35.o3.tw	Method	TBLASTX:Wheat
Start	138	End	473
GI	none	Score	105
Exons	138..386, 228..335, 387..473		

Seq. No.	15252	Seq. ID	OJ990517_11.9A01.C35
Gene No.	32374	Strand	+
Start	1	End	1536
Name	OJ990517_11.9A01.C35.o1.gs	Method	GENSCAN
Start	249	End	1489
GI	none	Score	.59
Exons	249..1060, 1087..1489		

Seq. No.	15252	Seq. ID	OJ990517_11.9A01.C35
Gene No.	32374	Strand	+
Start	1	End	1536
Name	OJ990517_11.9A01.C35.o1.tw	Method	TBLASTX:Wheat
Start	477	End	959
GI	none	Score	46
Exons	477..527, 581..916, 582..959		

Seq. No.	15252	Seq. ID	OJ990517_11.9A01.C35
Gene No.	32374	Strand	+
Start	1	End	1536
Name	OJ990517_11.9A01.C35.o1.tm	Method	TBLASTX:Maize
Start	582	End	1013
GI	none	Score	359
Exons	582..1013, 621..800, 812..1006		

Seq. No.	15252	Seq. ID	OJ990517_11.9A01.C35
Gene No.	32374	Strand	+
Start	1	End	1536
Name	OJ990517_11.9A01.C35.o1.tc	Method	TBLASTX:Cress
Start	606	End	923
GI	none	Score	180
Exons	606..923		

Seq. No.	15252	Seq. ID	OJ990517_11.9A01.C35
Gene No.	32374	Strand	+
Start	1	End	1536
Name	OJ990517_11.9A01.C35.o2.tw	Method	TBLASTX:Wheat
Start	1052	End	1441
GI	none	Score	402
Exons	1052..1441, 1054..1377		

Seq. No.	15252	Seq. ID	OJ990517_11.9A01.C35
Gene No.	32374	Strand	+
Start	1	End	1536
Name	OJ990517_11.9A01.C35.o2.tm	Method	TBLASTX:Maize
Start	1084	End	1345

GI	none	Score	296
Exons	1084..1344, 1085..1345		

Seq. No.	15253	Seq. ID	OJ990517_11.9A01.C37
Gene No.	32375	Strand	+
Start	80	End	316
Name	OJ990517_11.9A01.C37.o1.gs	Method	GENSCAN
Start	80	End	316
GI	none	Score	.41
Exons	80..316		

Seq. No.	15254	Seq. ID	OJ990517_11.9A01.C41
Gene No.	32376	Strand	-
Start	86	End	358
Name	OJ990517_11.9A01.C41.o1.gp	Method	AAT/GAP
Start	86	End	358
GI	61605_1.R1084	Score	444
Exons	86..358		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	15255	Seq. ID	OJ990517_11.9A01.C42
Gene No.	32377	Strand	+
Start	1	End	399
Name	OJ990517_11.9A01.C42.o1.np	Method	AAT/NAP
Start	1	End	399
GI	5902445	Score	600
Exons	1..399		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	15255	Seq. ID	OJ990517_11.9A01.C42
Gene No.	32377	Strand	+
Start	1	End	399
Name	OJ990517_11.9A01.C42.o1.tw	Method	TBLASTX:Wheat
Start	1	End	390
GI	none	Score	158
Exons	1..267, 259..390		

Seq. No.	15255	Seq. ID	OJ990517_11.9A01.C42
Gene No.	32377	Strand	+
Start	1	End	399
Name	OJ990517_11.9A01.C42.o1.gs	Method	GENSCAN
Start	25	End	369
GI	none	Score	.81
Exons	25..369		

Seq. No.	15255	Seq. ID	OJ990517_11.9A01.C42
Gene No.	32377	Strand	+
Start	1	End	399
Name	OJ990517_11.9A01.C42.o1.tm	Method	TBLASTX:Maize
Start	88	End	351
GI	none	Score	154
Exons	88..270, 117..167, 210..269, 249..350, 249..350, 250..351		

Seq. No.	15256	Seq. ID	OJ990517_11.9A01.C45
Gene No.	32378	Strand	-
Start	414	End	583

Name	OJ990517_11.9A01.C45.o1.gs	Method	GENSCAN
Start	414	End	583
GI	none	Score	.58
Exons	414..583		

Seq. No.	15257	Seq. ID	OJ990517_11.9A01.C46
Gene No.	32379	Strand	-
Start	301	End	587
Name	OJ990517_11.9A01.C46.o1.gs	Method	GENSCAN
Start	301	End	578
GI	none	Score	.82
Exons	301..345, 426..578		

Seq. No.	15257	Seq. ID	OJ990517_11.9A01.C46
Gene No.	32379	Strand	-
Start	301	End	587
Name	OJ990517_11.9A01.C46.o1.tm	Method	TBLASTX:Maize
Start	420	End	555
GI	none	Score	165
Exons	420..554, 421..555		

Seq. No.	15257	Seq. ID	OJ990517_11.9A01.C46
Gene No.	32379	Strand	-
Start	301	End	587
Name	OJ990517_11.9A01.C46.o1.tw	Method	TBLASTX:Wheat
Start	420	End	587
GI	none	Score	199
Exons	420..584, 425..583, 436..585, 474..587		

Seq. No.	15258	Seq. ID	OJ990517_11.9A01.C47
Gene No.	32380	Strand	+
Start	837	End	1222
Name	OJ990517_11.9A01.C47.o1.gp	Method	AAT/GAP
Start	837	End	1222
GI	uC-osf1cyp033a04b1	Score	625
Exons	837..1222		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	15258	Seq. ID	OJ990517_11.9A01.C47
Gene No.	32381	Strand	-
Start	274	End	405
Name	OJ990517_11.9A01.C47.o1.gs	Method	GENSCAN
Start	274	End	405
GI	none	Score	.43
Exons	274..405		

Seq. No.	15258	Seq. ID	OJ990517_11.9A01.C47
Gene No.	32382	Strand	-
Start	770	End	1260
Name	OJ990517_11.9A01.C47.o1.np	Method	AAT/NAP
Start	770	End	1260
GI	4680186	Score	304
Exons	770..967, 1230..1260		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	15259	Seq. ID	OJ990517_11.9A01.C48

Gene No.	32383	Strand	+
Start	88	End	185
Name	OJ990517_11.9A01.C48.o1.gs	Method	GENSCAN
Start	88	End	185
GI	none	Score	.56
Exons	88..185		

Seq. No.	15259	Seq. ID	OJ990517_11.9A01.C48
Gene No.	32384	Strand	+
Start	88	End	429
Name	OJ990517_11.9A01.C48.o1.gp	Method	AAT/GAP
Start	88	End	429
GI	uC-osroM202024h08a1	Score	86
Exons	88..157, 407..429		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 5.0e-84 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	15260	Seq. ID	OJ990517_11.9A01.C49
Gene No.	32385	Strand	+
Start	67	End	579
Name	OJ990517_11.9A01.C49.o1.tm	Method	TBLASTX:Maize
Start	9	End	409
GI	none	Score	60
Exons	9..158, 161..256, 163..258, 292..408, 335..409		

Seq. No.	15260	Seq. ID	OJ990517_11.9A01.C49
Gene No.	32385	Strand	+
Start	67	End	579
Name	OJ990517_11.9A01.C49.o1.gs	Method	GENSCAN
Start	67	End	579
GI	none	Score	.57
Exons	67..389, 516..579		

Seq. No.	15261	Seq. ID	OJ990517_11.9A01.C51
Gene No.	32386	Strand	+
Start	1	End	123
Name	OJ990517_11.9A01.C51.o1.gp	Method	AAT/GAP
Start	1	End	123
GI	none	Score	212
Exons	1..123		

Seq. No.	15262	Seq. ID	OJ990517_13.9A08.C1
Gene No.	32387	Strand	-
Start	121	End	204
Name	OJ990517_13.9A08.C1.o1.gs	Method	GENSCAN
Start	121	End	204
GI	none	Score	.98
Exons	121..204		

Seq. No.	15263	Seq. ID	OJ990517_13.9A08.C2
Gene No.	32388	Strand	+
Start	1	End	1316
Name	OJ990517_13.9A08.C2.o1.gp	Method	AAT/GAP
Start	1	End	387
GI	428969	Score	545
Exons	1..36, 134..387		
GI Descrip.	3860319/emb|CAA10127| 7.0e-33 (AJ012686) nucleolar protein		

[Cicer arietinum]

Seq. No.	15263	Seq. ID	OJ990517_13.9A08.C2
Gene No.	32388	Strand	+
Start	1	End	1316
Name	OJ990517_13.9A08.C2.o1.np	Method	AAT/NAP
Start	1	End	1241
GI	3860319	Score	791
Exons	1..36, 134..386, 509..657, 745..890, 984..1241		
GI Descrip.	(AJ012686) nucleolar protein [Cicer arietinum]		

Seq. No.	15263	Seq. ID	OJ990517_13.9A08.C2
Gene No.	32388	Strand	+
Start	1	End	1316
Name	OJ990517_13.9A08.C2.o1.gs	Method	GENSCAN
Start	134	End	1316
GI	none	Score	.89
Exons	134..455, 509..657, 718..897, 979..1316		

Seq. No.	15263	Seq. ID	OJ990517_13.9A08.C2
Gene No.	32388	Strand	+
Start	1	End	1316
Name	OJ990517_13.9A08.C2.o2.gp	Method	AAT/GAP
Start	495	End	1168
GI	56616_1.R1084	Score	834
Exons	495..657, 745..897, 979..1168		
GI Descrip.	'6056371/gb|AAF02835.1|AC009894_6 7.0e-42 (AC009894) nucleolar protein [Arabidopsis thaliana]'		

Seq. No.	15263	Seq. ID	OJ990517_13.9A08.C2
Gene No.	32389	Strand	-
Start	1196	End	1552
Name	OJ990517_13.9A08.C2.o3.gp	Method	AAT/GAP
Start	1196	End	1552
GI	4858_1.R1084	Score	654
Exons	1196..1552		
GI Descrip.	'3860319/emb|CAA10127| 7.0e-33 (AJ012686) nucleolar protein [Cicer arietinum]'		

Seq. No.	15263	Seq. ID	OJ990517_13.9A08.C2
Gene No.	32390	Strand	-
Start	1551	End	4603
Name	OJ990517_13.9A08.C2.o1.ts	Method	TBLASTX:Soybean
Start	2	End	884
GI	none	Score	58
Exons	2..43, 3..47, 126..395, 132..395, 133..396, 385..651, 479..655, 488..655, 507..656, 728..883, 734..856, 741..884		

Seq. No.	15263	Seq. ID	OJ990517_13.9A08.C2
Gene No.	32390	Strand	-
Start	1551	End	4603
Name	OJ990517_13.9A08.C2.o1.tm	Method	TBLASTX:Maize
Start	3	End	1274
GI	none	Score	58
Exons	3..47, 3..44, 132..395, 133..396, 488..655, 506..652, 507..656, 728..910, 741..911, 975..1082, 975..1082, 976..1089, 1203..1274		

Seq. No.	15263	Seq. ID	OJ990517_13.9A08.C2
Gene No.	32390	Strand	-
Start	1551	End	4603
Name	OJ990517_13.9A08.C2.o1.tc	Method	TBLASTX:Cress
Start	6	End	587
GI	none	Score	36
Exons	6..47, 133..384, 186..377, 506..583, 507..587		

Seq. No.	15263	Seq. ID	OJ990517_13.9A08.C2
Gene No.	32390	Strand	-
Start	1551	End	4603
Name	OJ990517_13.9A08.C2.o2.gs	Method	GENSCAN
Start	1551	End	4603
GI	none	Score	.92
Exons	1551..1684, 2136..2287, 2854..2988, 4581..4603		

Seq. No.	15263	Seq. ID	OJ990517_13.9A08.C2
Gene No.	32390	Strand	-
Start	1551	End	4603
Name	OJ990517_13.9A08.C2.o2.tm	Method	TBLASTX:Maize
Start	3382	End	3608
GI	none	Score	258
Exons	3382..3606, 3386..3601, 3387..3608		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32391	Strand	+
Start	1188	End	1455
Name	OJ990517_13.9A08.C3.o1.gs	Method	GENSCAN
Start	1188	End	1455
GI	none	Score	.6
Exons	1188..1296, 1346..1455		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32392	Strand	+
Start	3232	End	4179
Name	OJ990517_13.9A08.C3.o2.gs	Method	GENSCAN
Start	3232	End	4179
GI	none	Score	.93
Exons	3232..4179		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32393	Strand	+
Start	4263	End	4730
Name	OJ990517_13.9A08.C3.o3.gs	Method	GENSCAN
Start	4263	End	4730
GI	none	Score	.83
Exons	4263..4730		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32394	Strand	+
Start	5044	End	12269
Name	OJ990517_13.9A08.C3.o4.gs	Method	GENSCAN
Start	5044	End	12269
GI	none	Score	.55
Exons	5044..5206, 5312..5634, 5910..6763, 6962..7300, 7440..7659, 7955..8133, 8468..8547, 8640..8704, 8768..9084, 9351..9397, 10650..11335, 11796..12269		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32394	Strand	+
Start	5044	End	12269
Name	OJ990517_13.9A08.C3.o1.np	Method	AAT/NAP
Start	5973	End	12266
GI	5902445	Score	3003
Exons	5973..7596, 10769..10946, 10986..12266		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32395	Strand	-
Start	9349	End	9677
Name	OJ990517_13.9A08.C3.o1.gp	Method	AAT/GAP
Start	9349	End	9677
GI	1631463	Score	83
Exons	9349..9414, 9656..9677		
GI Descrip.	4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002
Name	OJ990517_13.9A08.C3.o5.tw	Method	TBLASTX:Wheat
Start	5272	End	9965
GI	none	Score	129
Exons	5272..5454, 5280..5378, 5491..5646, 5493..5657, 5649..5726, 9840..9965		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002
Name	OJ990517_13.9A08.C3.o1.tw	Method	TBLASTX:Wheat
Start	5918	End	6374
GI	none	Score	547
Exons	5918..6373, 5919..6374		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002
Name	OJ990517_13.9A08.C3.o2.ts	Method	TBLASTX:Soybean
Start	5958	End	6323
GI	none	Score	99
Exons	5958..6152, 6189..6323		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002
Name	OJ990517_13.9A08.C3.o1.tm	Method	TBLASTX:Maize
Start	6048	End	6404
GI	none	Score	407
Exons	6048..6404, 6107..6403		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002

Name	OJ990517_13.9A08.C3.o3.tm	Method	TBLASTX:Maize
Start	6432	End	6815
GI	none	Score	322
Exons	6432..6815, 6492..6617, 6599..6814		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002
Name	OJ990517_13.9A08.C3.o2.tw	Method	TBLASTX:Wheat
Start	6489	End	6908
GI	none	Score	458
Exons	6489..6908, 6599..6871		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002
Name	OJ990517_13.9A08.C3.o1.ts	Method	TBLASTX:Soybean
Start	6543	End	6938
GI	none	Score	289
Exons	6543..6938, 6602..6727		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002
Name	OJ990517_13.9A08.C3.o6.tw	Method	TBLASTX:Wheat
Start	7058	End	7467
GI	none	Score	206
Exons	7058..7285, 7059..7283, 7293..7388, 7372..7467		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002
Name	OJ990517_13.9A08.C3.o2.tm	Method	TBLASTX:Maize
Start	11141	End	11447
GI	none	Score	103
Exons	11141..11251, 11228..11446, 11229..11447		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002
Name	OJ990517_13.9A08.C3.o4.tw	Method	TBLASTX:Wheat
Start	11273	End	11627
GI	none	Score	354
Exons	11273..11329, 11274..11627, 11375..11617		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002
Name	OJ990517_13.9A08.C3.o3.tw	Method	TBLASTX:Wheat
Start	11648	End	12257
GI	none	Score	63
Exons	11648..11839, 11649..12101, 11654..11752, 11798..11905, 12126..12257, 12131..12256		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002

Name	OJ990517_13.9A08.C3.o4.tm	Method	TBLASTX:Maize
Start	11871	End	12134
GI	none	Score	193
Exons	11871..12134		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002
Name	OJ990517_13.9A08.C3.o5.gs	Method	GENSCAN
Start	12961	End	13977
GI	none	Score	.82
Exons	12961..13400, 13511..13656, 13793..13977		

Seq. No.	15264	Seq. ID	OJ990517_13.9A08.C3
Gene No.	32396	Strand	-
Start	12961	End	14002
Name	OJ990517_13.9A08.C3.o2.np	Method	AAT/NAP
Start	13792	End	14002
GI	6721561	Score	278
Exons	13792..14002		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	15265	Seq. ID	OJ990517_13.9A08.C4
Gene No.	32397	Strand	-
Start	1	End	1467
Name	OJ990517_13.9A08.C4.o1.np	Method	AAT/NAP
Start	1	End	1040
GI	6721561	Score	946
Exons	1..582, 656..714, 785..1040		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	15265	Seq. ID	OJ990517_13.9A08.C4
Gene No.	32397	Strand	-
Start	1	End	1467
Name	OJ990517_13.9A08.C4.o1.gs	Method	GENSCAN
Start	110	End	1467
GI	none	Score	.75
Exons	110..608, 637..714, 785..976, 1044..1168, 1335..1467		

Seq. No.	15265	Seq. ID	OJ990517_13.9A08.C4
Gene No.	32397	Strand	-
Start	1	End	1467
Name	OJ990517_13.9A08.C4.o2.np	Method	AAT/NAP
Start	208	End	1168
GI	6721558	Score	113
Exons	208..424, 1044..1168		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	15266	Seq. ID	OJ990517_13.9A08.C5
Gene No.	32398	Strand	+
Start	266	End	1542
Name	OJ990517_13.9A08.C5.o1.gs	Method	GENSCAN
Start	266	End	1524
GI	none	Score	.81
Exons	266..418, 1125..1420, 1469..1524		

Seq. No.	15266	Seq. ID	OJ990517_13.9A08.C5
Gene No.	32398	Strand	+
Start	266	End	1542
Name	OJ990517_13.9A08.C5.o1.gp	Method	AAT/GAP
Start	1086	End	1420
GI	26006_1.R1084	Score	568
Exons	1086..1420		
GI Descrip.	'3334276/sp|Q13823|NGP1_HUMAN 1.0e-131 AUTOANTIGEN NGP-1 >gi_179285_gb_AAC37588.1_ (L05425) nucleolar GTPase [Homo sapiens]'		

Seq. No.	15266	Seq. ID	OJ990517_13.9A08.C5
Gene No.	32398	Strand	+
Start	266	End	1542
Name	OJ990517_13.9A08.C5.o1.np	Method	AAT/NAP
Start	1165	End	1542
GI	6862958	Score	202
Exons	1165..1424, 1476..1542		
GI Descrip.	(AC019018) putative GTP-binding protein [Arabidopsis thaliana]		

Seq. No.	15266	Seq. ID	OJ990517_13.9A08.C5
Gene No.	32398	Strand	+
Start	266	End	1542
Name	OJ990517_13.9A08.C5.o1.tm	Method	TBLASTX:Maize
Start	1182	End	1425
GI	none	Score	92
Exons	1182..1244, 1186..1245, 1281..1421, 1282..1422, 1306..1425		

Seq. No.	15266	Seq. ID	OJ990517_13.9A08.C5
Gene No.	32398	Strand	+
Start	266	End	1542
Name	OJ990517_13.9A08.C5.o1.ts	Method	TBLASTX:Soybean
Start	1185	End	1422
GI	none	Score	92
Exons	1185..1244, 1186..1245, 1281..1421, 1282..1422		

Seq. No.	15266	Seq. ID	OJ990517_13.9A08.C5
Gene No.	32398	Strand	+
Start	266	End	1542
Name	OJ990517_13.9A08.C5.o1.tw	Method	TBLASTX:Wheat
Start	1185	End	1390
GI	none	Score	63
Exons	1185..1223, 1186..1230, 1281..1388, 1282..1389, 1334..1390		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32399	Strand	+
Start	149	End	3310
Name	OJ990517_13.9A08.C6.o1.gp	Method	AAT/GAP

Start	149	End	2846
GI	26006_1.R1084	Score	2389
Exons	149..250, 348..452, 527..655, 742..882, 1417..1517, 1862..1919, 2218..2846		
GI Descrip.	'3334276/sp|Q13823|NGP1_HUMAN 1.0e-131 AUTOANTIGEN NGP-1 >gi_179285_gb_AAC37588.1_ (L05425) nucleolar GTPase [Homo sapiens]'		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32399	Strand	+
Start	149	End	3310
Name	OJ990517_13.9A08.C6.o1.gs	Method	GENSCAN
Start	149	End	2505
GI	none	Score	.84
Exons	149..250, 348..452, 527..700, 742..882, 1417..1517, 1862..1919, 2218..2505		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32399	Strand	+
Start	149	End	3310
Name	OJ990517_13.9A08.C6.o1.np	Method	AAT/NAP
Start	149	End	3310
GI	6862958	Score	977
Exons	149..250, 348..452, 527..655, 742..882, 1417..1517, 1862..1919, 2218..2503, 3155..3310		
GI Descrip.	(AC019018) putative GTP-binding protein [Arabidopsis thaliana]		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32400	Strand	+
Start	8752	End	18129
Name	OJ990517_13.9A08.C6.o2.np	Method	AAT/NAP
Start	8697	End	17884
GI	6735309	Score	3455
Exons	8697..8844, 8969..9748, 9824..10024, 10142..10252, 10667..11049, 11156..11264, 11348..11428, 11650..11816, 11904..12029, 12181..12342, 12421..12478, 12705..12935, 13078..13224, 13341..13895, 14124..14381, 14658..14765, 15322..15416, 15508..15664, 16055..16228, 17110..17232, 17862..17884		
GI Descrip.	(AL137080) helicase-like protein [Arabidopsis thaliana]		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32400	Strand	+
Start	8752	End	18129
Name	OJ990517_13.9A08.C6.o3.gs	Method	GENSCAN
Start	8752	End	18129
GI	none	Score	.95
Exons	8752..8842, 8964..9748, 9824..10024, 10667..11049, 11156..11264, 11348..11428, 11746..11879, 11904..12029, 12181..12342, 12421..12478, 12705..12935, 13078..13224, 13341..13895, 14124..14381, 15322..15416, 15508..15664, 16028..16228, 17104..17232, 17854..18129		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32401	Strand	+
Start	20527	End	22089
Name	OJ990517_13.9A08.C6.o4.gs	Method	GENSCAN
Start	20527	End	22089

GI	none	Score	.71
Exons	20527..20650, 21525..21708, 21714..22089		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32402	Strand	-
Start	18032	End	18125
Name	OJ990517_13.9A08.C6.o1.tm	Method	TBLASTX:Maize
Start	121	End	2508
GI	none	Score	150
Exons	121..249, 122..250, 138..248, 146..250, 347..451, 348..458, 518..655, 522..656, 524..658, 526..657, 729..884, 741..884, 742..885, 746..928, 1415..1519, 1417..1518, 1864..1920, 1865..1927, 1866..1919, 1877..1921, 2215..2433, 2217..2339, 2286..2480, 2287..2481, 2469..2507, 2470..2508		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32402	Strand	-
Start	18032	End	18125
Name	OJ990517_13.9A08.C6.o1.tc	Method	TBLASTX:Cress
Start	146	End	1467
GI	none	Score	149
Exons	146..250, 148..309, 327..458, 345..437, 347..448, 517..657, 524..658, 738..884, 742..885, 1417..1467		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32402	Strand	-
Start	18032	End	18125
Name	OJ990517_13.9A08.C6.o1.ts	Method	TBLASTX:Soybean
Start	188	End	2489
GI	none	Score	80
Exons	188..250, 190..249, 347..448, 348..458, 517..657, 524..658, 738..884, 742..885, 746..889, 1416..1514, 1417..1518, 1866..1919, 2215..2358, 2215..2295, 2217..2372, 2358..2489, 2359..2457		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32402	Strand	-
Start	18032	End	18125
Name	OJ990517_13.9A08.C6.o3.tm	Method	TBLASTX:Maize
Start	8758	End	9234
GI	none	Score	81
Exons	8758..8856, 8962..9024, 8963..9190, 8964..9152, 8964..9194, 8965..9174, 8981..9199, 9088..9198, 9205..9234		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32402	Strand	-
Start	18032	End	18125
Name	OJ990517_13.9A08.C6.o3.tc	Method	TBLASTX:Cress
Start	9336	End	9669
GI	none	Score	264
Exons	9336..9476, 9352..9600, 9353..9601, 9637..9669		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32402	Strand	-
Start	18032	End	18125
Name	OJ990517_13.9A08.C6.o2.ts	Method	TBLASTX:Soybean
Start	12199	End	15672

GI	none	Score	162
Exons	12199..12339, 12206..12346, 12705..12839, 14634..14765, 15322..15414, 15482..15667, 15523..15672		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32402	Strand	-
Start	18032	End	18125
Name	OJ990517_13.9A08.C6.o1.tw	Method	TBLASTX:Wheat
Start	12707	End	13196
GI	none	Score	368
Exons	12707..12937, 12708..12938, 13054..13119, 13077..13196, 13078..13194		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32402	Strand	-
Start	18032	End	18125
Name	OJ990517_13.9A08.C6.o2.tc	Method	TBLASTX:Cress
Start	14223	End	16105
GI	none	Score	43
Exons	14223..14255, 14256..14387, 14264..14383, 14657..14767, 14658..14765, 15322..15417, 15324..15407, 15505..15594, 15506..15595, 15595..15666, 15599..15667, 16043..16105		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32402	Strand	-
Start	18032	End	18125
Name	OJ990517_13.9A08.C6.o2.tm	Method	TBLASTX:Maize
Start	14298	End	17157
GI	none	Score	132
Exons	14298..14378, 14300..14383, 14301..14417, 14657..14767, 14658..14765, 14660..14767, 15307..15420, 15317..15421, 15321..15413, 15322..15417, 15324..15431, 15504..15653, 15506..15670, 15506..15670, 16027..16227, 16031..16228, 17103..17156, 17104..17157		

Seq. No.	15267	Seq. ID	OJ990517_13.9A08.C6
Gene No.	32402	Strand	-
Start	18032	End	18125
Name	OJ990517_13.9A08.C6.o2.gp	Method	AAT/GAP
Start	18032	End	18125
GI	none	Score	132
Exons	18032..18125		

Seq. No.	15268	Seq. ID	OJ990517_13.9A08.C11
Gene No.	32403	Strand	-
Start	355	End	451
Name	OJ990517_13.9A08.C11.o1.gs	Method	GENSCAN
Start	355	End	451
GI	none	Score	.91
Exons	355..451		

Seq. No.	15269	Seq. ID	OJ990517_13.9A08.C12
Gene No.	32404	Strand	+
Start	1	End	569
Name	OJ990517_13.9A08.C12.o1.np	Method	AAT/NAP
Start	1	End	566
GI	6735309	Score	284

Exons	1..109, 336..566		
GI Descrip.	(AL137080) helicase-like protein [Arabidopsis thaliana]		
Seq. No.	15269	Seq. ID	OJ990517_13.9A08.C12
Gene No.	32404	Strand	+
Start	1	End	569
Name	OJ990517_13.9A08.C12.o1.gs	Method	GENSCAN
Start	52	End	566
GI	none	Score	.95
Exons	52..109, 336..566		
Seq. No.	15269	Seq. ID	OJ990517_13.9A08.C12
Gene No.	32404	Strand	+
Start	1	End	569
Name	OJ990517_13.9A08.C12.o1.tw	Method	TBLASTX:Wheat
Start	338	End	569
GI	none	Score	362
Exons	338..568, 339..569		
Seq. No.	15270	Seq. ID	OJ990517_13.9A08.C13
Gene No.	32405	Strand	+
Start	215	End	428
Name	OJ990517_13.9A08.C13.o1.gs	Method	GENSCAN
Start	215	End	428
GI	none	Score	.59
Exons	215..428		
Seq. No.	15271	Seq. ID	OJ990517_13.9A08.C14
Gene No.	32406	Strand	-
Start	1	End	1160
Name	OJ990517_13.9A08.C14.o1.np	Method	AAT/NAP
Start	1	End	1160
GI	3776559	Score	981
Exons	1..77, 149..488, 582..866, 948..1160		
GI Descrip.	(AC005388) Strong similarity to gene F14J9.26 gi|3482933 cdc2 protein kinase homolog from A. thaliana BAC gb|AC003970. ESTs gb|Z35332 and gb|F19907 come from this gene. [Arabidopsis thaliana]		
Seq. No.	15271	Seq. ID	OJ990517_13.9A08.C14
Gene No.	32406	Strand	-
Start	1	End	1160
Name	OJ990517_13.9A08.C14.o1.tm	Method	TBLASTX:Maize
Start	168	End	774
GI	none	Score	429
Exons	168..491, 169..489, 579..773, 580..774		
Seq. No.	15271	Seq. ID	OJ990517_13.9A08.C14
Gene No.	32406	Strand	-
Start	1	End	1160
Name	OJ990517_13.9A08.C14.o1.ts	Method	TBLASTX:Soybean
Start	168	End	876
GI	none	Score	254
Exons	168..500, 169..498, 579..875, 580..876		
Seq. No.	15271	Seq. ID	OJ990517_13.9A08.C14
Gene No.	32406	Strand	-

Start	1	End	1160
Name	OJ990517_13.9A08.C14.o1.tc	Method	TBLASTX:Cress
Start	198	End	818
GI	none	Score	285
Exons	198..497, 199..498, 579..818, 580..714		

Seq. No.	15271	Seq. ID	OJ990517_13.9A08.C14
Gene No.	32406	Strand	-
Start	1	End	1160
Name	OJ990517_13.9A08.C14.o1.gp	Method	AAT/GAP
Start	230	End	823
GI	uC-osf1cyp155g01b1	Score	935
Exons	230..488, 582..823		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	15271	Seq. ID	OJ990517_13.9A08.C14
Gene No.	32406	Strand	-
Start	1	End	1160
Name	OJ990517_13.9A08.C14.o1.tw	Method	TBLASTX:Wheat
Start	237	End	734
GI	none	Score	72
Exons	237..497, 238..318, 346..489, 579..734, 580..714		

Seq. No.	15271	Seq. ID	OJ990517_13.9A08.C14
Gene No.	32406	Strand	-
Start	1	End	1160
Name	OJ990517_13.9A08.C14.o1.gs	Method	GENSCAN
Start	252	End	1062
GI	none	Score	.88
Exons	252..488, 582..866, 948..1062		

Seq. No.	15271	Seq. ID	OJ990517_13.9A08.C14
Gene No.	32406	Strand	-
Start	1	End	1160
Name	OJ990517_13.9A08.C14.o2.tm	Method	TBLASTX:Maize
Start	775	End	1053
GI	none	Score	120
Exons	775..849, 777..869, 777..875, 945..1043, 948..995, 949..1053		

Seq. No.	15272	Seq. ID	OJ990517_13.9A08.C16
Gene No.	32407	Strand	+
Start	1344	End	2404
Name	OJ990517_13.9A08.C16.o1.gs	Method	GENSCAN
Start	1344	End	2404
GI	none	Score	.47
Exons	1344..1454, 2228..2404		

Seq. No.	15273	Seq. ID	OJ990517_13.9A08.C17
Gene No.	32408	Strand	+
Start	283	End	339
Name	OJ990517_13.9A08.C17.o1.gp	Method	AAT/GAP
Start	283	End	339
GI	2312838	Score	62
Exons	283..339		
GI Descrip.	1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	15273	Seq. ID	OJ990517_13.9A08.C17
Gene No.	32409	Strand	+
Start	418	End	552
Name	OJ990517_13.9A08.C17.o1.gs	Method	GENSCAN
Start	418	End	552
GI	none	Score	.56
Exons	418..552		

Seq. No.	15274	Seq. ID	OJ990517_13.9A08.C21
Gene No.	32410	Strand	+
Start	47	End	299
Name	OJ990517_13.9A08.C21.o1.gp	Method	AAT/GAP
Start	47	End	299
GI	619_3.R1084	Score	291
Exons	47..229, 260..299		
GI Descrip.	'134595/sp|P28756|SOD1_ORYSA 1.0e-47 SUPEROXIDE DISMUTASE-1 [CU-ZN] >gi_280412_pir__S22508 superoxide dismutase (EC 1.15.1.1) (Cu-Zn) sodA - rice >gi_218224_dbj_BAA00799_ (D00999) copper/zinc-superoxide dismutase [Oryza sativa] >gi_685242 (L19435) cytosolic copper/zinc-superoxide dismutase [Oryza sativa] >gi_1096504_prf__2111424A Cu/Zn superoxide dismutase [Oryza sativa]'		

Seq. No.	15275	Seq. ID	OJ990517_13.9A08.C22
Gene No.	32411	Strand	+
Start	138	End	716
Name	OJ990517_13.9A08.C22.o1.gp	Method	AAT/GAP
Start	138	End	519
GI	619_1.R1084	Score	219
Exons	138..233, 488..519		
GI Descrip.	'134595/sp|P28756|SOD1_ORYSA 2.0e-86 SUPEROXIDE DISMUTASE-1 [CU-ZN] >gi_280412_pir__S22508 superoxide dismutase (EC 1.15.1.1) (Cu-Zn) sodA - rice >gi_218224_dbj_BAA00799_ (D00999) copper/zinc-superoxide dismutase [Oryza sativa] >gi_685242 (L19435) cytosolic copper/zinc-superoxide dismutase [Oryza sativa] >gi_1096504_prf__2111424A Cu/Zn superoxide dismutase [Oryza sativa]'		

Seq. No.	15275	Seq. ID	OJ990517_13.9A08.C22
Gene No.	32411	Strand	+
Start	138	End	716
Name	OJ990517_13.9A08.C22.o1.np	Method	AAT/NAP
Start	138	End	716
GI	134595	Score	172
Exons	138..233, 488..519, 668..716		
GI Descrip.	SUPEROXIDE DISMUTASE [CU-ZN] 1 gi|280412|pir||S22508 superoxide dismutase (EC 1.15.1.1) (Cu-Zn) sodA - rice gi|218224|dbj|BAA00799| (D00999) copper/zinc-superoxide dismutase [Oryza sativa] gi|685242 (L19435) cytosolic copper/zinc-superoxide dismutase [Oryza sativa] gi|1096504|prf||2111424A Cu/Zn superoxide dismutase [Oryza sativa]		

Seq. No.	15275	Seq. ID	OJ990517_13.9A08.C22
Gene No.	32411	Strand	+
Start	138	End	716

Name	OJ990517_13.9A08.C22.o1.gs	Method	GENSCAN
Start	138	End	519
GI	none	Score	.76
Exons	138..233, 488..519		

Seq. No.	15276	Seq. ID	OJ990517_13.9A08.C23
Gene No.	32412	Strand	+
Start	1	End	274
Name	OJ990517_13.9A08.C23.o1.gp	Method	AAT/GAP
Start	1	End	262
GI	58768_1.R1084	Score	454
Exons	1..262		
GI Descrip.	'5001734/gb|AAD37122.1|AF129511_1 8.0e-33 (AF129511) very-long-chain fatty acid condensing enzyme CUT1 [Arabidopsis thaliana]'		

Seq. No.	15276	Seq. ID	OJ990517_13.9A08.C23
Gene No.	32412	Strand	+
Start	1	End	274
Name	OJ990517_13.9A08.C23.o1.tc	Method	TBLASTX:Cress
Start	1	End	272
GI	none	Score	73
Exons	1..69, 128..262, 147..272		

Seq. No.	15276	Seq. ID	OJ990517_13.9A08.C23
Gene No.	32412	Strand	+
Start	1	End	274
Name	OJ990517_13.9A08.C23.o1.ts	Method	TBLASTX:Soybean
Start	1	End	272
GI	none	Score	63
Exons	1..69, 128..250, 147..272		

Seq. No.	15276	Seq. ID	OJ990517_13.9A08.C23
Gene No.	32412	Strand	+
Start	1	End	274
Name	OJ990517_13.9A08.C23.o1.np	Method	AAT/NAP
Start	1	End	274
GI	5001734	Score	324
Exons	1..274		
GI Descrip.	(AF129511) very-long-chain fatty acid condensing enzyme CUT1 [Arabidopsis thaliana] gi|6553942|gb|AAF16606.1|AC011915_9 (AC011915) very-long-chain fatty acid condensing enzyme (CUT1) [Arabidopsis thaliana]		

Seq. No.	15276	Seq. ID	OJ990517_13.9A08.C23
Gene No.	32412	Strand	+
Start	1	End	274
Name	OJ990517_13.9A08.C23.o1.gs	Method	GENSCAN
Start	25	End	224
GI	none	Score	.72
Exons	25..64, 97..224		

Seq. No.	15277	Seq. ID	OJ990517_13.9A08.C28
Gene No.	32413	Strand	
Start	96	End	370
Name	OJ990517_13.9A08.C28.o1.ts	Method	TBLASTX:Soybean
Start	96	End	370

GI	none	Score	346
Exons	96..365, 98..370		
Seq. No.	15277	Seq. ID	OJ990517_13.9A08.C28
Gene No.	32414	Strand	
Start	398	End	823
Name	OJ990517_13.9A08.C28.o1.tm	Method	TBLASTX:Maize
Start	398	End	823
GI	none	Score	107
Exons	398..502, 411..503, 481..594, 578..823	482..595, 567..719, 575..823,	
Seq. No.	15277	Seq. ID	OJ990517_13.9A08.C28
Gene No.	32414	Strand	
Start	398	End	823
Name	OJ990517_13.9A08.C28.o2.ts	Method	TBLASTX:Soybean
Start	487	End	741
GI	none	Score	195
Exons	487..597, 488..628, 581..628, 640..741	620..736, 621..713, 623..739,	
Seq. No.	15278	Seq. ID	OJ990517_13.9A08.C29
Gene No.	32415	Strand	+
Start	121	End	392
Name	OJ990517_13.9A08.C29.o1.gs	Method	GENSCAN
Start	121	End	392
GI	none	Score	.68
Exons	121..204, 289..392		
Seq. No.	15279	Seq. ID	OJ990517_13.9A08.C30
Gene No.	32416	Strand	+
Start	60	End	292
Name	OJ990517_13.9A08.C30.o1.gs	Method	GENSCAN
Start	60	End	292
GI	none	Score	.85
Exons	60..292		
Seq. No.	15280	Seq. ID	OJ990517_13.9A08.C31
Gene No.	32417	Strand	+
Start	246	End	340
Name	OJ990517_13.9A08.C31.o1.gp	Method	AAT/GAP
Start	246	End	340
GI	26006_1.R1084	Score	132
Exons	246..340		
GI Descrip.	'3334276/sp|Q13823|NGP1_HUMAN 1.0e-131 AUTOANTIGEN NGP-1 >gi_179285_gb_AAC37588.1_ (L05425) nucleolar GTPase [Homo sapiens]'		
Seq. No.	15281	Seq. ID	OJ990517_13.9A08.C34
Gene No.	32418	Strand	-
Start	224	End	358
Name	OJ990517_13.9A08.C34.o1.gs	Method	GENSCAN
Start	224	End	358
GI	none	Score	.49
Exons	224..358		
Seq. No.	15281	Seq. ID	OJ990517_13.9A08.C34

Gene No.	32419	Strand	-
Start	437	End	493
Name	OJ990517_13.9A08.C34.o1.gp	Method	AAT/GAP
Start	437	End	493
GI	2312838	Score	62
Exons	437..493		
GI Descrip.	1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	15282	Seq. ID	OJ990517_13.9A08.C35
Gene No.	32420	Strand	-
Start	463	End	562
Name	OJ990517_13.9A08.C35.o1.gs	Method	GENSCAN
Start	463	End	562
GI	none	Score	.64
Exons	463..562		

Seq. No.	15282	Seq. ID	OJ990517_13.9A08.C35
Gene No.	32421	Strand	-
Start	492	End	731
Name	OJ990517_13.9A08.C35.o1.np	Method	AAT/NAP
Start	492	End	731
GI	2618698	Score	81
Exons	492..562, 706..731		
GI Descrip.	(AC002510) unknown protein [Arabidopsis thaliana]		

Seq. No.	15282	Seq. ID	OJ990517_13.9A08.C35
Gene No.	32421	Strand	-
Start	492	End	731
Name	OJ990517_13.9A08.C35.o1.gp	Method	AAT/GAP
Start	496	End	731
GI	uC-osflcyp024b01b1	Score	145
Exons	496..562, 706..731		
GI Descrip.	'2618698 1.0e-39 (AC002510) unknown protein [Arabidopsis thaliana]'		

Seq. No.	15283	Seq. ID	OJ990517_13.9A08.C36
Gene No.	32422	Strand	+
Start	578	End	1172
Name	OJ990517_13.9A08.C36.o1.gp	Method	AAT/GAP
Start	578	End	1149
GI	4989_1.R1084	Score	1090
Exons	578..1149		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	15283	Seq. ID	OJ990517_13.9A08.C36
Gene No.	32422	Strand	+
Start	578	End	1172
Name	OJ990517_13.9A08.C36.o1.gs	Method	GENSCAN
Start	837	End	1172
GI	none	Score	.63
Exons	837..1172		

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32423	Strand	+
Start	19662	End	21432

Name	OJ990517_13.9A08.C37.o3.np	Method	AAT/NAP
Start	19662	End	21432
GI	5922620	Score	165
Exons	19662..19691, 21301..21432		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o1.gp	Method	AAT/GAP
Start	1	End	94
GI	3760420	Score	179
Exons	1..94		

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o2.np	Method	AAT/NAP
Start	1	End	22866
GI	5032119	Score	170
Exons	1..112, 399..448, 1073..1267, 5744..5829, 9384..9742, 13015..13113, 17037..17347, 20456..20723, 22812..22866		
GI Descrip.	Ser/Arg-related nuclear matrix protein (plenty of prolines 101-like) gi|3005587 (AF048977) Ser/Arg-related nuclear matrix protein [Homo sapiens]		

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o2.gp	Method	AAT/GAP
Start	1859	End	5830
GI	59_1.R1084	Score	3671
Exons	1859..2465, 2693..2827, 2908..3108, 3446..3745, 3835..4035, 4318..4482, 4556..4735, 5282..5323, 5426..5531, 5649..5830		
GI Descrip.	'3288883/dbj|BAA31260| 0.0e+00 (AB015431) SAR DNA binding protein [Oryza sativa]'		

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o2.gs	Method	GENSCAN
Start	2061	End	8095
GI	none	Score	.74
Exons	2061..2465, 2693..2827, 2908..3108, 3446..3745, 3835..4035, 4318..4482, 4556..4735, 5282..5323, 5426..5528, 5649..5783, 6732..7012, 8066..8095		

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o1.tm	Method	TBLASTX:Maize
Start	2074	End	12802
GI	none	Score	58

Exons 2074..2139, 2087..2143, 2107..2145, 2203..2280, 2204..2335, 2252..2353, 2314..2355, 2360..2422, 2364..2426, 2370..2423, 2377..2439, 2424..2468, 2425..2466, 2436..2477, 2685..2783, 2686..2829, 2693..2830, 2897..3112, 2899..3111, 3445..3747, 3446..3751, 3446..3754, 3826..4038, 3831..4037, 3832..4038, 4315..4482, 4315..4482, 4316..4483, 4316..4486, 4556..4735, 4557..4736, 5279..5323, 5280..5324, 5426..5506, 9442..9498, 9565..9633, 9671..9781, 9710..9778, 9711..9794, 9779..9838, 9780..9821, 9791..9832, 10095..10238, 10102..10254, 10102..10239, 10308..10499, 10310..10501, 10319..10555, 10323..10520, 10759..11061, 10760..11068, 10760..11068, 10761..11072, 11141..11353, 11147..11353, 11149..11358, 11593..11796, 11627..11800, 11629..11796, 11630..11797, 11856..12050, 11856..12050, 11870..12055, 11870..12052, 12554..12598, 12555..12599, 12713..12802, 12713..12793

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o1.np	Method	AAT/NAP
Start	2313	End	12790
GI	3288883	Score	2186

Exons 2313..2465, 10102..10236, 10319..10519, 10760..11059, 11150..11350, 11632..11796, 11870..12049, 12557..12598, 12713..12790

GI Descrip. (AB015431) SAR DNA binding protein [Oryza sativa]

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o1.ts	Method	TBLASTX:Soybean
Start	2685	End	12793
GI	none	Score	123

Exons 2685..2780, 2693..2797, 2693..2830, 2885..3112, 2905..3111, 2931..3140, 3410..3751, 3447..3701, 3832..4038, 3836..4036, 4315..4482, 4316..4483, 4331..4483, 4556..4735, 4557..4736, 5426..5506, 10102..10239, 10103..10189, 10299..10499, 10316..10501, 10319..10555, 10320..10520, 10752..10916, 10759..11043, 10760..11077, 10761..11093, 11147..11365, 11151..11351, 11152..11352, 11593..11796, 11630..11797, 11645..11797, 11870..12052, 11871..12050, 12713..12793

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o1.tc	Method	TBLASTX:Cress
Start	3028	End	11079
GI	none	Score	83

Exons 3028..3102, 3035..3100, 3446..3778, 3447..3701, 3455..3733, 10439..10501, 10446..10499, 10760..11047, 10761..11054, 10769..11074, 10771..11079

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o2.tc	Method	TBLASTX:Cress
Start	3963	End	12805

GI	none	Score	63
Exons	3963..4037, 3964..4050, 3964..4038, 4315..4482, 4316..4483, 4316..4483, 4317..4484, 4556..4735, 4557..4733, 5279..5323, 5426..5512, 11279..11365, 11279..11353, 11593..11796, 11630..11797, 11630..11797, 11870..12052, 11871..12047, 12554..12598, 12558..12599, 12713..12805, 12713..12799		

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o1.tw	Method	TBLASTX:Wheat
Start	4610	End	12935
GI	none	Score	187
Exons	4610..4735, 4611..4736, 5279..5323, 5426..5521, 5463..5522, 11924..12052, 11925..12050, 12554..12598, 12555..12599, 12713..12805, 12713..12802, 12750..12812, 12906..12935		

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o3.gp	Method	AAT/GAP
Start	9219	End	13095
GI	59_1.R1084	Score	3537
Exons	9219..9820, 10102..10236, 10319..10519, 10760..11059, 11150..11350, 11632..11796, 11870..12049, 12557..12598, 12713..12818, 12925..13095		
GI Descrip.	'3288883/dbj|BAA31260| 0.0e+00 (AB015431) SAR DNA binding protein [Oryza sativa]'		

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o3.gs	Method	GENSCAN
Start	9416	End	12790
GI	none	Score	.99
Exons	9416..9820, 10102..10236, 10319..10519, 10760..11059, 11150..11350, 11632..11796, 11870..12049, 12557..12598, 12713..12790		

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o5.gs	Method	GENSCAN
Start	20227	End	21357
GI	none	Score	.72
Exons	20227..20336, 20994..21014, 21207..21357		

Seq. No.	15284	Seq. ID	OJ990517_13.9A08.C37
Gene No.	32424	Strand	-
Start	1	End	22866
Name	OJ990517_13.9A08.C37.o4.np	Method	AAT/NAP
Start	21571	End	22866
GI	6630699	Score	95
Exons	21571..21675, 22574..22612, 22807..22866		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	15285	Seq. ID	OJ990517_13.9A08.C38
Gene No.	32425	Strand	-
Start	17	End	1628
Name	OJ990517_13.9A08.C38.o1.gs	Method	GENSCAN
Start	17	End	1628
GI	none	Score	.77
Exons	17..116, 355..573, 811..991, 1586..1628		

Seq. No.	15286	Seq. ID	OJ990517_13.9A08.C39
Gene No.	32426	Strand	-
Start	60	End	491
Name	OJ990517_13.9A08.C39.o1.gs	Method	GENSCAN
Start	60	End	491
GI	none	Score	.71
Exons	60..151, 328..491		

Seq. No.	15287	Seq. ID	OJ990517_13.9A08.C40
Gene No.	32427	Strand	+
Start	358	End	4100
Name	OJ990517_13.9A08.C40.o1.gs	Method	GENSCAN
Start	358	End	3881
GI	none	Score	.78
Exons	358..563, 1690..2377, 2499..2729, 3376..3665, 3788..3881		

Seq. No.	15287	Seq. ID	OJ990517_13.9A08.C40
Gene No.	32427	Strand	+
Start	358	End	4100
Name	OJ990517_13.9A08.C40.o1.gp	Method	AAT/GAP
Start	1587	End	4100
GI	1_1.R1084	Score	3128
Exons	1587..2377, 2499..2729, 3376..3665, 3788..4100		
GI Descrip.	'5031285/gb|AAD38148.1|AF139501_1 1.0e-14 (AF139501) beta-amylase [Prunus armeniaca]'		

Seq. No.	15287	Seq. ID	OJ990517_13.9A08.C40
Gene No.	32427	Strand	+
Start	358	End	4100
Name	OJ990517_13.9A08.C40.o1.np	Method	AAT/NAP
Start	1781	End	3878
GI	3618308	Score	2089
Exons	1781..2377, 2499..2729, 3376..3665, 3788..3878		
GI Descrip.	(AB001882) zinc finger protein [Oryza sativa]		

Seq. No.	15287	Seq. ID	OJ990517_13.9A08.C40
Gene No.	32427	Strand	+
Start	358	End	4100
Name	OJ990517_13.9A08.C40.o2.tm	Method	TBLASTX:Maize
Start	1949	End	2212
GI	none	Score	92
Exons	1949..1999, 1951..1998, 2071..2118, 2072..2119, 2128..2205, 2135..2212		

Seq. No.	15287	Seq. ID	OJ990517_13.9A08.C40
Gene No.	32427	Strand	+
Start	358	End	4100
Name	OJ990517_13.9A08.C40.o1.tm	Method	TBLASTX:Maize

Start	2290	End	3885
GI	none	Score	77
Exons	2290..2376, 2293..2382, 2294..2392, 2481..2573, 2507..2635, 2508..2639, 2651..2677, 2662..2697, 3357..3614, 3373..3615, 3588..3674, 3598..3666, 3786..3875, 3787..3885, 3787..3861		

Seq. No.	15288	Seq. ID	OJ990517_13.9A08.C41
Gene No.	32428	Strand	+
Start	198	End	344
Name	OJ990517_13.9A08.C41.o1.gs	Method	GENSCAN
Start	198	End	344
GI	none	Score	.97
Exons	198..344		

Seq. No.	15288	Seq. ID	OJ990517_13.9A08.C41
Gene No.	32429	Strand	-
Start	1407	End	2040
Name	OJ990517_13.9A08.C41.o2.gs	Method	GENSCAN
Start	1407	End	2040
GI	none	Score	.63
Exons	1407..1519, 1746..2040		

Seq. No.	15288	Seq. ID	OJ990517_13.9A08.C41
Gene No.	32430	Strand	-
Start	3562	End	4653
Name	OJ990517_13.9A08.C41.o3.gs	Method	GENSCAN
Start	3562	End	4653
GI	none	Score	.84
Exons	3562..3705, 4579..4653		

Seq. No.	15289	Seq. ID	OJ990517_13.9A08.C42
Gene No.	32431	Strand	+
Start	70	End	149
Name	OJ990517_13.9A08.C42.o1.gs	Method	GENSCAN
Start	70	End	149
GI	none	Score	.64
Exons	70..149		

Seq. No.	15289	Seq. ID	OJ990517_13.9A08.C42
Gene No.	32432	Strand	-
Start	1	End	265
Name	OJ990517_13.9A08.C42.o1.gp	Method	AAT/GAP
Start	1	End	265
GI	54791_1.R1084	Score	476
Exons	1..265		
GI Descrip.	'5031285/gb|AAD38148.1|AF139501_1 1.0e-14 (AF139501) beta-amylase [Prunus armeniaca]'		

Seq. No.	15289	Seq. ID	OJ990517_13.9A08.C42
Gene No.	32433	Strand	-
Start	937	End	1240
Name	OJ990517_13.9A08.C42.o2.gp	Method	AAT/GAP
Start	937	End	1240
GI	702900	Score	432
Exons	937..1240		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43

Gene No.	32434	Strand	-
Start	1	End	281
Name	OJ990517_13.9A08.C43.o1.gp	Method	AAT/GAP
Start	1	End	281
GI	702900	Score	471
Exons	1..281		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43
Gene No.	32435	Strand	-
Start	1038	End	9833
Name	OJ990517_13.9A08.C43.o1.gs	Method	GENSCAN
Start	1038	End	9833
GI	none	Score	.67
Exons	1038..1506, 1910..2089, 2461..2692, 3398..3756, 3896..4125, 4171..4231, 5153..5280, 7005..7178, 8163..8220, 8529..8668, 9653..9806, 9817..9833		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43
Gene No.	32435	Strand	-
Start	1038	End	9833
Name	OJ990517_13.9A08.C43.o1.np	Method	AAT/NAP
Start	1041	End	3700
GI	3738302	Score	1313
Exons	1041..1506, 1910..2089, 2461..2596, 2690..2777, 3355..3700		
GI Descrip.	(AC005309) putative Tub family protein [Arabidopsis thaliana]		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43
Gene No.	32435	Strand	-
Start	1038	End	9833
Name	OJ990517_13.9A08.C43.o3.gp	Method	AAT/GAP
Start	3877	End	4369
GI	none	Score	907
Exons	3877..4369		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43
Gene No.	32436	Strand	-
Start	10304	End	11970
Name	OJ990517_13.9A08.C43.o1.ts	Method	TBLASTX:Soybean
Start	1016	End	1512
GI	none	Score	376
Exons	1016..1345, 1017..1355, 1021..1338, 1341..1508, 1342..1512		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43
Gene No.	32436	Strand	-
Start	10304	End	11970
Name	OJ990517_13.9A08.C43.o1.tc	Method	TBLASTX:Cress
Start	1017	End	1313
GI	none	Score	154
Exons	1017..1205, 1039..1176, 1185..1313, 1204..1308		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43
Gene No.	32436	Strand	-
Start	10304	End	11970
Name	OJ990517_13.9A08.C43.o1.tw	Method	TBLASTX:Wheat
Start	1038	End	1169
GI	none	Score	114
Exons	1038..1169, 1039..1164		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43
Gene No.	32436	Strand	-
Start	10304	End	11970
Name	OJ990517_13.9A08.C43.o1.tm	Method	TBLASTX:Maize
Start	1044	End	2497
GI	none	Score	624
Exons	1044..1508, 1045..1512, 1909..2091, 1910..2092, 2456..2497, 2458..2496		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43
Gene No.	32436	Strand	-
Start	10304	End	11970
Name	OJ990517_13.9A08.C43.o2.tw	Method	TBLASTX:Wheat
Start	1200	End	1325
GI	none	Score	103
Exons	1200..1301, 1200..1325, 1204..1314		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43
Gene No.	32436	Strand	-
Start	10304	End	11970
Name	OJ990517_13.9A08.C43.o3.tc	Method	TBLASTX:Cress
Start	1317	End	1512
GI	none	Score	145
Exons	1317..1508, 1333..1512, 1426..1509		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43
Gene No.	32436	Strand	-
Start	10304	End	11970
Name	OJ990517_13.9A08.C43.o2.ts	Method	TBLASTX:Soybean
Start	1895	End	3641
GI	none	Score	200
Exons	1895..2092, 1908..2087, 1909..2091, 1922..2092, 2450..2578, 2452..2595, 2460..2600, 2590..2625, 2694..2780, 2709..2780, 2710..2781, 3355..3468, 3356..3472, 3368..3469, 3533..3565, 3543..3641		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43
Gene No.	32436	Strand	-
Start	10304	End	11970
Name	OJ990517_13.9A08.C43.o2.tc	Method	TBLASTX:Cress
Start	1909	End	3468
GI	none	Score	36
Exons	1909..1953, 1916..1954, 1945..1986, 1952..1984, 2053..2091, 2060..2104, 2452..2595, 2460..2600, 2685..2780, 2695..2781, 3338..3466, 3355..3468		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43
Gene No.	32436	Strand	-
Start	10304	End	11970
Name	OJ990517_13.9A08.C43.o2.tm	Method	TBLASTX:Maize
Start	3430	End	3712
GI	none	Score	109
Exons	3430..3468, 3464..3565, 3479..3562, 3573..3701, 3639..3710, 3650..3712		

Seq. No.	15290	Seq. ID	OJ990517_13.9A08.C43

Gene No.	32436	Strand	-
Start	10304	End	11970
Name	OJ990517_13.9A08.C43.o2.gs	Method	GENSCAN
Start	10304	End	11970
GI	none	Score	.68
Exons	10304..10417, 11001..11077, 11806..11970		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32437	Strand	+
Start	1075	End	1186
Name	OJ990517_13.9A08.C44.o1.gs	Method	GENSCAN
Start	1075	End	1186
GI	none	Score	.41
Exons	1075..1186		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32438	Strand	+
Start	4483	End	7606
Name	OJ990517_13.9A08.C44.o1.gp	Method	AAT/GAP
Start	4483	End	7606
GI	619_1.R1084	Score	1481
Exons	4483..4579, 5661..5748, 5841..5942, 6067..6162, 6417..6448, 6597..6672, 7134..7187, 7301..7606		
GI Descrip.	'134595/sp|P28756|SOD1_ORYSA 2.0e-86 SUPEROXIDE DISMUTASE-1 [CU-ZN] >gi_280412_pir__S22508 superoxide dismutase (EC 1.15.1.1) (Cu-Zn) sodA - rice >gi_218224_dbj_BAA00799_ (D00999) copper/zinc-superoxide dismutase [Oryza sativa] >gi_685242 (L19435) cytosolic copper/zinc-superoxide dismutase [Oryza sativa] >gi_1096504_prf__2111424A Cu/Zn superoxide dismutase [Oryza sativa]'		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32438	Strand	+
Start	4483	End	7606
Name	OJ990517_13.9A08.C44.o1.np	Method	AAT/NAP
Start	5673	End	7320
GI	134595	Score	628
Exons	5673..5748, 5841..5942, 6067..6162, 6417..6448, 6597..6672, 7134..7187, 7301..7320		
GI Descrip.	SUPEROXIDE DISMUTASE [CU-ZN] 1 gi|280412|pir||S22508 superoxide dismutase (EC 1.15.1.1) (Cu-Zn) sodA - rice gi|218224|dbj|BAA00799| (D00999) copper/zinc-superoxide dismutase [Oryza sativa] gi|685242 (L19435) cytosolic copper/zinc-superoxide dismutase [Oryza sativa] gi|1096504|prf||2111424A Cu/Zn superoxide dismutase [Oryza sativa]		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32439	Strand	+
Start	7567	End	8164
Name	OJ990517_13.9A08.C44.o2.np	Method	AAT/NAP
Start	7567	End	8164
GI	6691203	Score	93
Exons	7567..7857, 8063..8164		
GI Descrip.	(AC007508) F1K23.7 [Arabidopsis thaliana]		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44

Gene No.	32440	Strand	+
Start	24071	End	24936
Name	OJ990517_13.9A08.C44.o6.gs	Method	GENSCAN
Start	24071	End	24936
GI	none	Score	.44
Exons	24071..24073, 24270..24537, 24620..24936		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32441	Strand	-
Start	20815	End	24386
Name	OJ990517_13.9A08.C44.o1.tw	Method	TBLASTX:Wheat
Start	5658	End	7471
GI	none	Score	110
Exons	5658..5747, 5660..5749, 5660..5749, 5839..5943, 5840..5953, 6065..6163, 6066..6167, 6069..6164, 6070..6180, 6576..6674, 6582..6674, 6596..6688, 7132..7191, 7133..7189, 7135..7221, 7300..7329, 7430..7471		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32441	Strand	-
Start	20815	End	24386
Name	OJ990517_13.9A08.C44.o3.tm	Method	TBLASTX:Maize
Start	5659	End	7323
GI	none	Score	140
Exons	5659..5748, 5660..5749, 5661..5774, 5839..5943, 5840..5953, 6065..6163, 6066..6167, 6069..6164, 6070..6165, 6570..6674, 6594..6674, 6596..6688, 7132..7191, 7133..7189, 7296..7322, 7300..7323		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32441	Strand	-
Start	20815	End	24386
Name	OJ990517_13.9A08.C44.o2.ts	Method	TBLASTX:Soybean
Start	5666	End	7323
GI	none	Score	74
Exons	5666..5749, 5670..5762, 5670..5750, 5839..5943, 5840..5953, 6038..6175, 6066..6182, 6579..6674, 6596..6673, 7132..7191, 7133..7189, 7300..7323		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32441	Strand	-
Start	20815	End	24386
Name	OJ990517_13.9A08.C44.o1.tc	Method	TBLASTX:Cress
Start	5667	End	7335
GI	none	Score	93
Exons	5667..5762, 5670..5753, 5839..5943, 5840..5953, 6065..6163, 6066..6182, 6579..6674, 6596..6691, 7132..7191, 7133..7189, 7300..7335		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32441	Strand	-
Start	20815	End	24386
Name	OJ990517_13.9A08.C44.o5.gs	Method	GENSCAN
Start	20815	End	23282
GI	none	Score	.76
Exons	20815..20942, 21178..21317, 22491..22632, 22640..23282		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32441	Strand	-
Start	20815	End	24386
Name	OJ990517_13.9A08.C44.o3.np	Method	AAT/NAP
Start	21390	End	23351
GI	2623297	Score	658
Exons	21390..21411, 22505..23351		
GI Descrip.	(AC002409) unknown protein [Arabidopsis thaliana] gi|3790583 (AF079180) RING-H2 finger protein RHC1a [Arabidopsis thaliana]		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32441	Strand	-
Start	20815	End	24386
Name	OJ990517_13.9A08.C44.o1.tm	Method	TBLASTX:Maize
Start	22354	End	23025
GI	none	Score	40
Exons	22354..22389, 22354..22395, 22389..22412, 22516..22554, 22516..22596, 22517..22597, 22588..22659, 22644..22757, 22645..22758, 22645..22758, 22652..22759, 22751..22918, 22751..22816, 22753..22980, 22755..22979, 22962..23024, 22963..23025		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32441	Strand	-
Start	20815	End	24386
Name	OJ990517_13.9A08.C44.o2.tc	Method	TBLASTX:Cress
Start	22507	End	23351
GI	none	Score	49
Exons	22507..22554, 22527..22550, 22632..22808, 22648..22803, 22807..22884, 22809..22883, 22851..22991, 22897..22980, 23095..23187, 23226..23351, 23239..23331		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32441	Strand	-
Start	20815	End	24386
Name	OJ990517_13.9A08.C44.o1.ts	Method	TBLASTX:Soybean
Start	22513	End	23333
GI	none	Score	53
Exons	22513..22554, 22527..22550, 22635..22964, 22650..22850, 22654..22941, 23019..23063, 23094..23183, 23095..23184, 23232..23333, 23236..23328		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32441	Strand	-
Start	20815	End	24386
Name	OJ990517_13.9A08.C44.o2.gp	Method	AAT/GAP
Start	22535	End	23063
GI	48898_1.R1084	Score	909
Exons	22535..23063		
GI Descrip.	'2623297 4.0e-22 (AC002409) unknown protein [Arabidopsis thaliana] >gi_3790583 (AF079180) RING-H2 finger protein RHC1a [Arabidopsis thaliana]'		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32441	Strand	-
Start	20815	End	24386
Name	OJ990517_13.9A08.C44.o2.tm	Method	TBLASTX:Maize

Start	23025	End	23377
GI	none	Score	476
Exons	23025..23357, 23026..23355, 23027..23377		

Seq. No.	15291	Seq. ID	OJ990517_13.9A08.C44
Gene No.	32441	Strand	-
Start	20815	End	24386
Name	OJ990517_13.9A08.C44.o4.gp	Method	AAT/GAP
Start	23075	End	24386
GI	702232	Score	855
Exons	23075..23410, 24267..24386		

Seq. No.	15292	Seq. ID	OJ990517_13.9A08.C46
Gene No.	32442	Strand	+
Start	1	End	697
Name	OJ990517_13.9A08.C46.o1.gp	Method	AAT/GAP
Start	1	End	137
GI	53703_1.R1084	Score	270
Exons	1..137		
GI Descrip.	'6056371/gb|AAF02835.1|AC009894_6 2.0e-48 (AC009894) nucleolar protein [Arabidopsis thaliana]'		

Seq. No.	15292	Seq. ID	OJ990517_13.9A08.C46
Gene No.	32442	Strand	+
Start	1	End	697
Name	OJ990517_13.9A08.C46.o1.np	Method	AAT/NAP
Start	1	End	697
GI	6056371	Score	421
Exons	1..179, 431..697		
GI Descrip.	(AC009894) nucleolar protein [Arabidopsis thaliana]		

Seq. No.	15292	Seq. ID	OJ990517_13.9A08.C46
Gene No.	32442	Strand	+
Start	1	End	697
Name	OJ990517_13.9A08.C46.o1.tm	Method	TBLASTX:Maize
Start	2	End	598
GI	none	Score	238
Exons	2..181, 39..179, 434..598, 438..584		

Seq. No.	15292	Seq. ID	OJ990517_13.9A08.C46
Gene No.	32442	Strand	+
Start	1	End	697
Name	OJ990517_13.9A08.C46.o1.ts	Method	TBLASTX:Soybean
Start	5	End	598
GI	none	Score	188
Exons	5..157, 39..179, 437..598, 446..583, 447..584		

Seq. No.	15292	Seq. ID	OJ990517_13.9A08.C46
Gene No.	32442	Strand	+
Start	1	End	697
Name	OJ990517_13.9A08.C46.o1.gs	Method	GENSCAN
Start	66	End	583
GI	none	Score	.74
Exons	66..179, 431..583		

Seq. No.	15292	Seq. ID	OJ990517_13.9A08.C46
Gene No.	32442	Strand	+

Start	1	End	697
Name	OJ990517_13.9A08.C46.o1.tc	Method	TBLASTX:Cress
Start	77	End	598
GI	none	Score	135
Exons	77..172, 78..179, 439..588, 440..598, 440..589		

Seq. No.	15293	Seq. ID	OJ990517_13.9A08.C47
Gene No.	32443	Strand	-
Start	1	End	523
Name	OJ990517_13.9A08.C47.o1.gp	Method	AAT/GAP
Start	1	End	55
GI	45434_1.R1084	Score	106
Exons	1..55		
GI Descrip.	'2618698 6.0e-19 (AC002510) unknown protein [Arabidopsis thaliana]'		

Seq. No.	15293	Seq. ID	OJ990517_13.9A08.C47
Gene No.	32443	Strand	-
Start	1	End	523
Name	OJ990517_13.9A08.C47.o1.np	Method	AAT/NAP
Start	1	End	523
GI	2618698	Score	259
Exons	1..149, 243..523		
GI Descrip.	(AC002510) unknown protein [Arabidopsis thaliana]		

Seq. No.	15293	Seq. ID	OJ990517_13.9A08.C47
Gene No.	32443	Strand	-
Start	1	End	523
Name	OJ990517_13.9A08.C47.o1.tm	Method	TBLASTX:Maize
Start	2	End	424
GI	none	Score	208
Exons	2..148, 3..149, 3..149, 246..419, 251..424, 332..388		

Seq. No.	15293	Seq. ID	OJ990517_13.9A08.C47
Gene No.	32443	Strand	-
Start	1	End	523
Name	OJ990517_13.9A08.C47.o1.ts	Method	TBLASTX:Soybean
Start	2	End	359
GI	none	Score	113
Exons	2..148, 3..149, 254..307, 297..359, 308..352		

Seq. No.	15293	Seq. ID	OJ990517_13.9A08.C47
Gene No.	32443	Strand	-
Start	1	End	523
Name	OJ990517_13.9A08.C47.o1.gs	Method	GENSCAN
Start	243	End	385
GI	none	Score	.79
Exons	243..385		

Seq. No.	15293	Seq. ID	OJ990517_13.9A08.C47
Gene No.	32443	Strand	-
Start	1	End	523
Name	OJ990517_13.9A08.C47.o2.gp	Method	AAT/GAP
Start	261	End	421
GI	4715626	Score	278
Exons	261..421		
GI Descrip.	2618698 1.0e-50 (AC002510) unknown protein [Arabidopsis		

thaliana]

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32444	Strand	+
Start	266	End	477
Name	OJ990517_13.9A08.C48.o1.gp	Method	AAT/GAP
Start	266	End	477
GI	45434_1.R1084	Score	368
Exons	266..477		
GI Descrip.	'2618698 6.0e-19 (AC002510) unknown protein [Arabidopsis thaliana]'		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32445	Strand	+
Start	4698	End	6251
Name	OJ990517_13.9A08.C48.o5.gp	Method	AAT/GAP
Start	4698	End	6251
GI	LIB3477-003-P1-K1-E9	Score	140
Exons	4698..4739, 6187..6251		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o2.tm	Method	TBLASTX:Maize
Start	265	End	1268
GI	none	Score	414
Exons	265..570, 266..571, 437..571, 668..841, 673..846, 1133..1267, 1134..1268		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o1.np	Method	AAT/NAP
Start	268	End	6532
GI	2618698	Score	2116
Exons	268..571, 665..828, 1133..2035, 2710..2829, 2924..2977, 3472..3603, 3733..3828, 4077..4346, 6286..6375, 6464..6532		
GI Descrip.	(AC002510) unknown protein [Arabidopsis thaliana]		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o1.gs	Method	GENSCAN
Start	277	End	7119
GI	none	Score	.75
Exons	277..568, 665..843, 1133..2035, 2114..2200, 2710..2793, 2924..2977, 3472..3603, 3733..3828, 4077..4222, 5019..5618, 7080..7119		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o2.ts	Method	TBLASTX:Soybean
Start	362	End	774

GI	none	Score	159
Exons	362..571, 364..570, 676..729, 730..774		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o2.gp	Method	AAT/GAP
Start	683	End	1457
GI	4715626	Score	929
Exons	683..843, 1133..1457		
GI Descrip.	2618698 1.0e-50 (AC002510) unknown protein [Arabidopsis thaliana]		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o1.ts	Method	TBLASTX:Soybean
Start	1264	End	1690
GI	none	Score	90
Exons	1264..1338, 1265..1372, 1266..1337, 1340..1690, 1344..1688		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o1.tm	Method	TBLASTX:Maize
Start	1424	End	3829
GI	none	Score	857
Exons	1424..2035, 1425..2036, 1426..2043, 2104..2184, 2111..2200, 2112..2201, 2116..2202, 2668..2787, 2701..2796, 2702..2848, 2920..2976, 2922..2978, 2922..2975, 2923..2976, 3463..3612, 3473..3613, 3473..3631, 3727..3828, 3729..3827, 3731..3829, 3734..3829		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o3.gp	Method	AAT/GAP
Start	1483	End	1803
GI	LIB3475-011-P1-K1-C3	Score	608
Exons	1483..1803		
GI Descrip.	'2618698 1.0e-50 (AC002510) unknown protein [Arabidopsis thaliana]'		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o4.gp	Method	AAT/GAP
Start	1913	End	2192
GI	uC-osflcyp106e03b1	Score	376
Exons	1913..2035, 2114..2192		
GI Descrip.	'2618698 2.0e-09 (AC002510) unknown protein [Arabidopsis thaliana]'		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o3.ts	Method	TBLASTX:Soybean

Start	3463	End	3829
GI	none	Score	108
Exons	3463..3612, 3476..3613, 3727..3828, 3740..3829		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o3.tm	Method	TBLASTX:Maize
Start	4266	End	6590
GI	none	Score	100
Exons	4266..4367, 4266..4376, 4267..4371, 6261..6377, 6286..6378, 6286..6378, 6458..6523, 6462..6590		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o4.ts	Method	TBLASTX:Soybean
Start	6292	End	6536
GI	none	Score	58
Exons	6292..6378, 6293..6379, 6294..6374, 6298..6378, 6458..6529, 6458..6523, 6462..6536, 6463..6525		

Seq. No.	15294	Seq. ID	OJ990517_13.9A08.C48
Gene No.	32446	Strand	-
Start	268	End	7119
Name	OJ990517_13.9A08.C48.o6.gp	Method	AAT/GAP
Start	6466	End	6524
GI	uC-osflcyp024b01b1	Score	100
Exons	6466..6524		
GI Descrip.	'2618698 1.0e-39 (AC002510) unknown protein [Arabidopsis thaliana]'		

Seq. No.	15295	Seq. ID	OJ990517_13.9A08.C49
Gene No.	32447	Strand	-
Start	63	End	4230
Name	OJ990517_13.9A08.C49.o1.gs	Method	GENSCAN
Start	63	End	4230
GI	none	Score	.66
Exons	63..237, 355..496, 2540..2814, 3102..3216, 4130..4230		

Seq. No.	15295	Seq. ID	OJ990517_13.9A08.C49
Gene No.	32447	Strand	-
Start	63	End	4230
Name	OJ990517_13.9A08.C49.o1.gp	Method	AAT/GAP
Start	142	End	634
GI	uC-osflcyp024b01b1	Score	691
Exons	142..237, 355..634		
GI Descrip.	'2618698 1.0e-39 (AC002510) unknown protein [Arabidopsis thaliana]'		

Seq. No.	15295	Seq. ID	OJ990517_13.9A08.C49
Gene No.	32447	Strand	-
Start	63	End	4230
Name	OJ990517_13.9A08.C49.o2.tm	Method	TBLASTX:Maize
Start	143	End	447
GI	none	Score	129
Exons	143..265, 163..249, 368..421, 370..447		

Seq. No.	15295	Seq. ID	OJ990517_13.9A08.C49
Gene No.	32447	Strand	-
Start	63	End	4230
Name	OJ990517_13.9A08.C49.o1.np	Method	AAT/NAP
Start	146	End	456
GI	2618698	Score	170
Exons	146..243, 332..456		
GI Descrip.	(AC002510) unknown protein [Arabidopsis thaliana]		

Seq. No.	15295	Seq. ID	OJ990517_13.9A08.C49
Gene No.	32447	Strand	-
Start	63	End	4230
Name	OJ990517_13.9A08.C49.o2.np	Method	AAT/NAP
Start	1514	End	4230
GI	6729015	Score	286
Exons	1514..1571, 2582..2814, 3102..3216, 4130..4230		
GI Descrip.	(AC009177) putative cyclin-dependent protein kinase [Arabidopsis thaliana]		

Seq. No.	15295	Seq. ID	OJ990517_13.9A08.C49
Gene No.	32447	Strand	-
Start	63	End	4230
Name	OJ990517_13.9A08.C49.o1.tm	Method	TBLASTX:Maize
Start	2219	End	2779
GI	none	Score	76
Exons	2219..2317, 2226..2297, 2227..2301, 2232..2327, 2341..2376, 2349..2393, 2349..2396, 2397..2459, 2424..2483, 2534..2734, 2535..2735, 2536..2739, 2537..2740, 2731..2778, 2738..2779		

Seq. No.	15295	Seq. ID	OJ990517_13.9A08.C49
Gene No.	32447	Strand	-
Start	63	End	4230
Name	OJ990517_13.9A08.C49.o2.gp	Method	AAT/GAP
Start	4120	End	4230
GI	LIB3477-005-P1-K1-G8	Score	176
Exons	4120..4230		
GI Descrip.	'3776559 2.0e-31 (AC005388) Strong similarity to gene F14J9.26 gi_3482933 cdc2 protein kinase homolog from A. thaliana BAC gb_AC003970. ESTs gb_Z35332 and gb_F19907 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	15296	Seq. ID	OJ990517_13.9A08.C50
Gene No.	32448	Strand	-
Start	608	End	1788
Name	OJ990517_13.9A08.C50.o1.np	Method	AAT/NAP
Start	608	End	1788
GI	3776559	Score	649
Exons	608..839, 1511..1788		
GI Descrip.	(AC005388) Strong similarity to gene F14J9.26 gi|3482933 cdc2 protein kinase homolog from A. thaliana BAC gb|AC003970. ESTs gb|Z35332 and gb|F19907 come from this gene. [Arabidopsis thaliana]		

Seq. No.	15296	Seq. ID	OJ990517_13.9A08.C50
Gene No.	32448	Strand	-
Start	608	End	1788

Name	OJ990517_13.9A08.C50.o1.gp	Method	AAT/GAP
Start	609	End	777
GI	LIB3477-005-P1-K1-G8	Score	315
Exons	609..777		
GI Descrip.	'3776559 2.0e-31 (AC005388) Strong similarity to gene F14J9.26 gi_3482933 cdc2 protein kinase homolog from A. thaliana BAC gb_AC003970. ESTs gb_Z35332 and gb_F19907 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	15296	Seq. ID	OJ990517_13.9A08.C50
Gene No.	32448	Strand	-
Start	608	End	1788
Name	OJ990517_13.9A08.C50.o1.gs	Method	GENSCAN
Start	612	End	1720
GI	none	Score	.97
Exons	612..839, 1592..1720		

Seq. No.	15296	Seq. ID	OJ990517_13.9A08.C50
Gene No.	32448	Strand	-
Start	608	End	1788
Name	OJ990517_13.9A08.C50.o2.tc	Method	TBLASTX:Cress
Start	612	End	840
GI	none	Score	164
Exons	612..839, 613..840		

Seq. No.	15296	Seq. ID	OJ990517_13.9A08.C50
Gene No.	32448	Strand	-
Start	608	End	1788
Name	OJ990517_13.9A08.C50.o1.ts	Method	TBLASTX:Soybean
Start	612	End	1788
GI	none	Score	210
Exons	612..839, 613..840, 642..860, 676..840, 737..841, 1508..1786, 1508..1786, 1509..1787, 1593..1787, 1693..1788		

Seq. No.	15296	Seq. ID	OJ990517_13.9A08.C50
Gene No.	32448	Strand	-
Start	608	End	1788
Name	OJ990517_13.9A08.C50.o1.tm	Method	TBLASTX:Maize
Start	612	End	1788
GI	none	Score	40
Exons	612..644, 613..645, 628..840, 645..842, 645..839, 647..844, 668..841, 1508..1786, 1509..1787, 1510..1788, 1681..1788		

Seq. No.	15296	Seq. ID	OJ990517_13.9A08.C50
Gene No.	32448	Strand	-
Start	608	End	1788
Name	OJ990517_13.9A08.C50.o1.tw	Method	TBLASTX:Wheat
Start	612	End	1671
GI	none	Score	301
Exons	612..839, 613..840, 667..840, 668..841, 1508..1663, 1509..1664, 1522..1671		

Seq. No.	15296	Seq. ID	OJ990517_13.9A08.C50
Gene No.	32448	Strand	-
Start	608	End	1788
Name	OJ990517_13.9A08.C50.o1.tc	Method	TBLASTX:Cress
Start	1538	End	1787

GI	none	Score	220
Exons	1538..1786, 1539..1787		
Seq. No.	15296	Seq. ID	OJ990517_13.9A08.C50
Gene No.	32448	Strand	-
Start	608	End	1788
Name	OJ990517_13.9A08.C50.o2.gp	Method	AAT/GAP
Start	1570	End	1788
GI	uC-osflcyp155g01b1	Score	434
Exons	1570..1788		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		
Seq. No.	15297	Seq. ID	OJ990517_13.9A08.C54
Gene No.	32449	Strand	-
Start	1	End	770
Name	OJ990517_13.9A08.C54.o1.np	Method	AAT/NAP
Start	1	End	770
GI	6735309	Score	131
Exons	1..126, 541..656, 749..770		
GI Descrip.	(AL137080) helicase-like protein [Arabidopsis thaliana]		
Seq. No.	15298	Seq. ID	OJ990517_13.9A08.C55
Gene No.	32450	Strand	+
Start	9	End	152
Name	OJ990517_13.9A08.C55.o1.gs	Method	GENSCAN
Start	9	End	152
GI	none	Score	.54
Exons	9..152		
Seq. No.	15299	Seq. ID	OJ990517_13.9A08.C56
Gene No.	32451	Strand	+
Start	308	End	570
Name	OJ990517_13.9A08.C56.o1.gs	Method	GENSCAN
Start	308	End	570
GI	none	Score	.65
Exons	308..313, 480..570		
Seq. No.	15299	Seq. ID	OJ990517_13.9A08.C56
Gene No.	32452	Strand	-
Start	1	End	647
Name	OJ990517_13.9A08.C56.o1.np	Method	AAT/NAP
Start	1	End	647
GI	5042454	Score	159
Exons	1..64, 449..647		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	15300	Seq. ID	OJ990517_13.9A08.C60
Gene No.	32453	Strand	+
Start	102	End	511
Name	OJ990517_13.9A08.C60.o1.np	Method	AAT/NAP
Start	102	End	511
GI	3738302	Score	334
Exons	102..511		
GI Descrip.	(AC005309) putative Tub family protein [Arabidopsis thaliana]		
Seq. No.	15300	Seq. ID	OJ990517_13.9A08.C60

Gene No.	32454	Strand	-
Start	77	End	469
Name	OJ990517_13.9A08.C60.o1.tm	Method	TBLASTX:Maize
Start	59	End	371
GI	none	Score	103
Exons	59..223, 72..227, 212..370, 213..371		

Seq. No.	15300	Seq. ID	OJ990517_13.9A08.C60
Gene No.	32454	Strand	-
Start	77	End	469
Name	OJ990517_13.9A08.C60.o1.gs	Method	GENSCAN
Start	77	End	433
GI	none	Score	.5
Exons	77..367, 425..433		

Seq. No.	15300	Seq. ID	OJ990517_13.9A08.C60
Gene No.	32454	Strand	-
Start	77	End	469
Name	OJ990517_13.9A08.C60.o1.ts	Method	TBLASTX:Soybean
Start	240	End	469
GI	none	Score	52
Exons	240..272, 245..469, 321..446		

Seq. No.	15300	Seq. ID	OJ990517_13.9A08.C60
Gene No.	32454	Strand	-
Start	77	End	469
Name	OJ990517_13.9A08.C60.o1.tc	Method	TBLASTX:Cress
Start	321	End	463
GI	none	Score	188
Exons	321..446, 323..463		

Seq. No.	15301	Seq. ID	OJ990517_13.9A08.C61
Gene No.	32455	Strand	-
Start	1	End	1898
Name	OJ990517_13.9A08.C61.o1.np	Method	AAT/NAP
Start	1	End	965
GI	6721558	Score	235
Exons	1..165, 866..965		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	15301	Seq. ID	OJ990517_13.9A08.C61
Gene No.	32455	Strand	-
Start	1	End	1898
Name	OJ990517_13.9A08.C61.o1.gs	Method	GENSCAN
Start	41	End	1756
GI	none	Score	.7
Exons	41..165, 332..753, 1238..1352, 1618..1756		

Seq. No.	15301	Seq. ID	OJ990517_13.9A08.C61
Gene No.	32455	Strand	-
Start	1	End	1898
Name	OJ990517_13.9A08.C61.o2.np	Method	AAT/NAP
Start	177	End	1898
GI	6721512	Score	96
Exons	177..197, 1625..1765, 1793..1898		

GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	15302	Seq. ID	OJ990517_13.9A08.C63
Gene No.	32456	Strand	-
Start	1	End	234
Name	OJ990517_13.9A08.C63.o1.gp	Method	AAT/GAP
Start	1	End	234
GI	24962_1.R1084	Score	432
Exons	1..234		

GI Descrip. '400986/sp|P31165|RK15_PEA 2.0e-18 50S RIBOSOMAL PROTEIN L15, CHLOROPLAST PRECURSOR (CL15) >gi_81947_pir__S18001 ribosomal protein L15 precursor, chloroplast - garden pea (fragment) >gi_20867_emb_CAA77595_ (Z11510) Plastid ribosomal protein CL15 [Pisum sativum]'

Seq. No.	15302	Seq. ID	OJ990517_13.9A08.C63
Gene No.	32456	Strand	-
Start	1	End	234
Name	OJ990517_13.9A08.C63.o1.gs	Method	GENSCAN
Start	53	End	168
GI	none	Score	.97
Exons	53..168		

Seq. No.	15303	Seq. ID	OJ990517_13.9A08.C64
Gene No.	32457	Strand	+
Start	172	End	313
Name	OJ990517_13.9A08.C64.o1.gp	Method	AAT/GAP
Start	172	End	313
GI	26006_1.R1084	Score	223
Exons	172..313		

GI Descrip. '3334276/sp|Q13823|NGP1_HUMAN 1.0e-131 AUTOANTIGEN NGP-1 >gi_179285_gb_AAC37588.1_ (L05425) nucleolar GTPase [Homo sapiens]'

Seq. No.	15303	Seq. ID	OJ990517_13.9A08.C64
Gene No.	32458	Strand	-
Start	1	End	370
Name	OJ990517_13.9A08.C64.o1.np	Method	AAT/NAP
Start	1	End	370
GI	6862958	Score	180
Exons	1..57, 167..370		

GI Descrip. (AC019018) putative GTP-binding protein [Arabidopsis thaliana]

Seq. No.	15303	Seq. ID	OJ990517_13.9A08.C64
Gene No.	32458	Strand	-
Start	1	End	370
Name	OJ990517_13.9A08.C64.o1.tc	Method	TBLASTX:Cress
Start	174	End	309
GI	none	Score	108
Exons	174..308, 177..308, 178..309		

Seq. No.	15303	Seq. ID	OJ990517_13.9A08.C64
Gene No.	32458	Strand	-
Start	1	End	370
Name	OJ990517_13.9A08.C64.o1.ts	Method	TBLASTX:Soybean
Start	174	End	312
GI	none	Score	97

Exons	174..311, 177..311, 178..312		
Seq. No.	15303	Seq. ID	OJ990517_13.9A08.C64
Gene No.	32458	Strand	-
Start	1	End	370
Name	OJ990517_13.9A08.C64.o1.tm	Method	TBLASTX:Maize
Start	177	End	312
GI	none	Score	210
Exons	177..311, 178..312		
Seq. No.	15304	Seq. ID	OJ990517_13.9A08.C65
Gene No.	32459	Strand	-
Start	1	End	131
Name	OJ990517_13.9A08.C65.o1.gp	Method	AAT/GAP
Start	1	End	131
GI	53703_1.R1084	Score	243
Exons	1..131		
GI Descrip.	'6056371/gb|AAF02835.1|AC009894_6 2.0e-48 (AC009894) nucleolar protein [Arabidopsis thaliana]'		
Seq. No.	15305	Seq. ID	OJ990517_13.9A08.C66
Gene No.	32460	Strand	-
Start	1	End	315
Name	OJ990517_13.9A08.C66.o1.np	Method	AAT/NAP
Start	1	End	196
GI	6539570	Score	164
Exons	1..196		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		
Seq. No.	15305	Seq. ID	OJ990517_13.9A08.C66
Gene No.	32460	Strand	-
Start	1	End	315
Name	OJ990517_13.9A08.C66.o1.gs	Method	GENSCAN
Start	26	End	315
GI	none	Score	.52
Exons	26..133, 271..315		
Seq. No.	15305	Seq. ID	OJ990517_13.9A08.C66
Gene No.	32461	Strand	-
Start	324	End	695
Name	OJ990517_13.9A08.C66.o2.np	Method	AAT/NAP
Start	324	End	695
GI	6630699	Score	89
Exons	324..412, 611..695		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	15306	Seq. ID	OJ990517_13.9A08.C69
Gene No.	32462	Strand	-
Start	121	End	486
Name	OJ990517_13.9A08.C69.o1.gs	Method	GENSCAN
Start	121	End	486
GI	none	Score	.57
Exons	121..272, 394..486		
Seq. No.	15307	Seq. ID	OJ990517_13.9A08.C71

Gene No.	32463	Strand	+
Start	83	End	749
Name	OJ990517_13.9A08.C71.o1.np	Method	AAT/NAP
Start	83	End	749
GI	6735309	Score	110
Exons	83..230, 355..572, 731..749		
GI Descrip.	(AL137080) helicase-like protein [Arabidopsis thaliana]		

Seq. No.	15307	Seq. ID	OJ990517_13.9A08.C71
Gene No.	32463	Strand	+
Start	83	End	749
Name	OJ990517_13.9A08.C71.o1.tm	Method	TBLASTX:Maize
Start	144	End	585
GI	none	Score	81
Exons	144..242, 348..410, 349..576, 350..538, 351..560, 367..585		

Seq. No.	15308	Seq. ID	OJ990517_13.9A08.C72
Gene No.	32464	Strand	+
Start	1	End	477
Name	OJ990517_13.9A08.C72.o1.np	Method	AAT/NAP
Start	1	End	477
GI	6056371	Score	151
Exons	1..123, 375..477		
GI Descrip.	(AC009894) nucleolar protein [Arabidopsis thaliana]		

Seq. No.	15308	Seq. ID	OJ990517_13.9A08.C72
Gene No.	32464	Strand	+
Start	1	End	477
Name	OJ990517_13.9A08.C72.o1.gs	Method	GENSCAN
Start	73	End	452
GI	none	Score	.76
Exons	73..123, 375..452		

Seq. No.	15309	Seq. ID	OJ990517_13.9A08.C78
Gene No.	32465	Strand	+
Start	1	End	302
Name	OJ990517_13.9A08.C78.o1.np	Method	AAT/NAP
Start	1	End	302
GI	4680179	Score	404
Exons	1..302		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	15309	Seq. ID	OJ990517_13.9A08.C78
Gene No.	32465	Strand	+
Start	1	End	302
Name	OJ990517_13.9A08.C78.o1.tm	Method	TBLASTX:Maize
Start	2	End	302
GI	none	Score	325
Exons	2..301, 3..302		

Seq. No.	15309	Seq. ID	OJ990517_13.9A08.C78
Gene No.	32465	Strand	+
Start	1	End	302
Name	OJ990517_13.9A08.C78.o1.tw	Method	TBLASTX:Wheat
Start	11	End	284
GI	none	Score	307
Exons	11..283, 15..284		

Seq. No.	15309	Seq. ID	OJ990517_13.9A08.C78
Gene No.	32465	Strand	+
Start	1	End	302
Name	OJ990517_13.9A08.C78.o1.gs	Method	GENSCAN
Start	12	End	212
GI	none	Score	.72
Exons	12..212		

Seq. No.	15310	Seq. ID	OJ990517_13.9A08.C82
Gene No.	32466	Strand	-
Start	307	End	601
Name	OJ990517_13.9A08.C82.o1.gs	Method	GENSCAN
Start	307	End	601
GI	none	Score	.54
Exons	307..601		

Seq. No.	15311	Seq. ID	OJ990517_13.9A08.C83
Gene No.	32467	Strand	-
Start	360	End	683
Name	OJ990517_13.9A08.C83.o1.gs	Method	GENSCAN
Start	360	End	683
GI	none	Score	.69
Exons	360..563, 602..683		

Seq. No.	15312	Seq. ID	OJ990517_13.9A08.C86
Gene No.	32468	Strand	+
Start	199	End	278
Name	OJ990517_13.9A08.C86.o1.gs	Method	GENSCAN
Start	199	End	278
GI	none	Score	.89
Exons	199..278		

Seq. No.	15313	Seq. ID	OJ990517_13.9A08.C88
Gene No.	32469	Strand	+
Start	186	End	236
Name	OJ990517_13.9A08.C88.o1.gs	Method	GENSCAN
Start	186	End	236
GI	none	Score	.52
Exons	186..236		

Seq. No.	15314	Seq. ID	OJ990517_13.9A08.C89
Gene No.	32470	Strand	-
Start	1	End	765
Name	OJ990517_13.9A08.C89.o1.np	Method	AAT/NAP
Start	1	End	765
GI	2618698	Score	93
Exons	1..27, 555..677, 732..765		
GI Descrip.	(AC002510) unknown protein [Arabidopsis thaliana]		

Seq. No.	15315	Seq. ID	OJ990407_12.9A08.C2
Gene No.	32471	Strand	-
Start	247	End	638
Name	OJ990407_12.9A08.C2.o1.gs	Method	GENSCAN
Start	247	End	638
GI	none	Score	.41
Exons	247..638		

Seq. No.	15316	Seq. ID	OJ990407_12.9A08.C3
Gene No.	32472	Strand	+
Start	6829	End	10042
Name	OJ990407_12.9A08.C3.o2.gs	Method	GENSCAN
Start	6829	End	10042
GI	none	Score	.51
Exons	6829..6984, 7278..7494, 7768..8285, 8437..9040, 9587..10042		

Seq. No.	15316	Seq. ID	OJ990407_12.9A08.C3
Gene No.	32473	Strand	-
Start	1297	End	4351
Name	OJ990407_12.9A08.C3.o1.gs	Method	GENSCAN
Start	1297	End	4351
GI	none	Score	.88
Exons	1297..1440, 1548..1616, 1691..1774, 1885..1949, 2194..2402, 2499..2980, 3090..3158, 3424..3488, 3733..3935, 4035..4351		

Seq. No.	15317	Seq. ID	OJ990407_12.9A08.C4
Gene No.	32474	Strand	+
Start	176	End	1781
Name	OJ990407_12.9A08.C4.o1.np	Method	AAT/NAP
Start	176	End	1781
GI	2914695	Score	161
Exons	176..305, 1566..1781		
GI Descrip.	(AC003974) putative ubiquitin carboxyl terminal hydrolase [Arabidopsis thaliana]		

Seq. No.	15317	Seq. ID	OJ990407_12.9A08.C4
Gene No.	32475	Strand	+
Start	6308	End	6658
Name	OJ990407_12.9A08.C4.o1.gp	Method	AAT/GAP
Start	6308	End	6658
GI	none	Score	657
Exons	6308..6658		

Seq. No.	15317	Seq. ID	OJ990407_12.9A08.C4
Gene No.	32476	Strand	+
Start	8172	End	8482
Name	OJ990407_12.9A08.C4.o2.gp	Method	AAT/GAP
Start	8172	End	8482
GI	427437	Score	593
Exons	8172..8482		

Seq. No.	15317	Seq. ID	OJ990407_12.9A08.C4
Gene No.	32477	Strand	-
Start	19901	End	20078
Name	OJ990407_12.9A08.C4.o3.gp	Method	AAT/GAP
Start	19901	End	20078
GI	none	Score	276
Exons	19901..20078		

Seq. No.	15318	Seq. ID	OJ990407_12.9A08.C6
Gene No.	32478	Strand	+
Start	1857	End	4382
Name	OJ990407_12.9A08.C6.o1.gs	Method	GENSCAN
Start	1857	End	4382

GI	none	Score	.66
Exons	1857..1956, 2844..2900, 4180..4382		

Seq. No.	15318	Seq. ID	OJ990407_12.9A08.C6
Gene No.	32479	Strand	+
Start	4647	End	4727
Name	OJ990407_12.9A08.C6.o1.gp	Method	AAT/GAP
Start	4647	End	4727
GI	38012_1.R1084	Score	101
Exons	4647..4727		
GI Descrip.	'4097947/gb|U72255|OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	15318	Seq. ID	OJ990407_12.9A08.C6
Gene No.	32480	Strand	-
Start	7380	End	8654
Name	OJ990407_12.9A08.C6.o3.gs	Method	GENSCAN
Start	7380	End	8654
GI	none	Score	.87
Exons	7380..7481, 8589..8654		

Seq. No.	15319	Seq. ID	OJ990407_12.9A08.C7
Gene No.	32481	Strand	+
Start	1360	End	1593
Name	OJ990407_12.9A08.C7.o1.gs	Method	GENSCAN
Start	1360	End	1593
GI	none	Score	.53
Exons	1360..1423, 1484..1593		

Seq. No.	15319	Seq. ID	OJ990407_12.9A08.C7
Gene No.	32482	Strand	-
Start	2237	End	3665
Name	OJ990407_12.9A08.C7.o2.gs	Method	GENSCAN
Start	2237	End	2837
GI	none	Score	.5
Exons	2237..2363, 2821..2837		

Seq. No.	15319	Seq. ID	OJ990407_12.9A08.C7
Gene No.	32482	Strand	-
Start	2237	End	3665
Name	OJ990407_12.9A08.C7.o1.np	Method	AAT/NAP
Start	2240	End	3665
GI	5852084	Score	74
Exons	2240..2329, 3630..3665		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32483	Strand	+
Start	6054	End	7182
Name	OJ990407_12.9A08.C8.o2.gs	Method	GENSCAN
Start	6054	End	7182
GI	none	Score	.95
Exons	6054..6312, 6968..7182		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32484	Strand	+
Start	24129	End	24589

Name	OJ990407_12.9A08.C8.o3.gp	Method	AAT/GAP
Start	24129	End	24589
GI	none	Score	880
Exons	24129..24589		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32485	Strand	+
Start	24770	End	33229
Name	OJ990407_12.9A08.C8.o5.gs	Method	GENSCAN
Start	24770	End	33229
GI	none	Score	.72
Exons	24770..25282, 25377..25592, 26773..27012, 27822..28025, 28115..28184, 28710..28887, 29606..29684, 29722..29909, 32384..32496, 32529..32864, 33078..33229		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32485	Strand	+
Start	24770	End	33229
Name	OJ990407_12.9A08.C8.o4.gp	Method	AAT/GAP
Start	25889	End	26061
GI	none	Score	205
Exons	25889..26061		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32485	Strand	+
Start	24770	End	33229
Name	OJ990407_12.9A08.C8.o5.gp	Method	AAT/GAP
Start	26005	End	26195
GI	none	Score	297
Exons	26005..26195		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32485	Strand	+
Start	24770	End	33229
Name	OJ990407_12.9A08.C8.o2.np	Method	AAT/NAP
Start	28761	End	28943
GI	6642645	Score	159
Exons	28761..28943		
GI Descrip.	(AC012395) putative RING zinc finger protein [Arabidopsis thaliana]		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32486	Strand	+
Start	38468	End	38695
Name	OJ990407_12.9A08.C8.o6.gs	Method	GENSCAN
Start	38468	End	38695
GI	none	Score	.98
Exons	38468..38695		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32487	Strand	+
Start	42424	End	43704
Name	OJ990407_12.9A08.C8.o8.gs	Method	GENSCAN
Start	42424	End	43704
GI	none	Score	.44
Exons	42424..42557, 42848..43473, 43574..43704		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32488	Strand	+
Start	44659	End	45522
Name	OJ990407_12.9A08.C8.o9.gs	Method	GENSCAN
Start	44659	End	45522
GI	none	Score	.89
Exons	44659..45019, 45395..45522		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32489	Strand	-
Start	60	End	4553
Name	OJ990407_12.9A08.C8.o1.gs	Method	GENSCAN
Start	60	End	4553
GI	none	Score	.73
Exons	60..194, 304..423, 735..809, 1419..1505, 2364..2445, 2530..2591, 3215..3269, 3876..3946, 4187..4263, 4460..4553		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32490	Strand	-
Start	10334	End	14463
Name	OJ990407_12.9A08.C8.o3.gs	Method	GENSCAN
Start	10334	End	14463
GI	none	Score	.98
Exons	10334..10920, 11005..11081, 11388..11477, 12259..13048, 13590..14463		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32491	Strand	-
Start	14697	End	14930
Name	OJ990407_12.9A08.C8.o2.gp	Method	AAT/GAP
Start	14697	End	14930
GI	3106595	Score	422
Exons	14697..14930		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32492	Strand	-
Start	15385	End	23910
Name	OJ990407_12.9A08.C8.o4.gs	Method	GENSCAN
Start	15385	End	23910
GI	none	Score	.61
Exons	15385..15980, 16787..16828, 17042..17275, 18016..18067, 18762..18824, 19362..19654, 20403..20779, 21562..21709, 23005..23310, 23898..23910		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o2.tc	Method	TBLASTX:Cress
Start	36	End	4562
GI	none	Score	107
Exons	36..197, 37..195, 304..423, 317..412, 1570..1650, 4184..4303, 4458..4553, 4458..4562		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o2.tm	Method	TBLASTX:Maize

Start	36	End	4562
GI	none	Score	114
Exons	36..197, 37..195, 263..283, 304..423, 323..412, 735..803, 890..988, 1417..1497, 1570..1650, 2364..2453, 4184..4249, 4440..4562		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o4.tm	Method	TBLASTX:Maize
Start	19383	End	20673
GI	none	Score	95
Exons	19383..19541, 19384..19539, 19542..19607, 19543..19593, 19595..19678, 19600..19644, 19737..19844, 19757..19825, 20605..20673, 20606..20668		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o2.tw	Method	TBLASTX:Wheat
Start	24749	End	24937
GI	none	Score	169
Exons	24749..24877, 24799..24876, 24803..24937, 24890..24925		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o3.tm	Method	TBLASTX:Maize
Start	28728	End	28934
GI	none	Score	245
Exons	28728..28934, 28728..28931, 28754..28933		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o3.ts	Method	TBLASTX:Soybean
Start	28748	End	28937
GI	none	Score	189
Exons	28748..28786, 28755..28937, 28814..28933		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o3.tc	Method	TBLASTX:Cress
Start	28755	End	28937
GI	none	Score	190
Exons	28755..28937, 28818..28892, 28877..28936		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o1.tw	Method	TBLASTX:Wheat
Start	32711	End	33112
GI	none	Score	62
Exons	32711..32803, 32815..33012, 33011..33112		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8

Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o6.gp	Method	AAT/GAP
Start	33865	End	37952
GI	1588_1.R1084	Score	1034
Exons	33865..34111, 34796..34880, 34965..35062, 35137..35247, 37913..37952		
GI Descrip.	'3292814/emb|CAA19804.1| 7.0e-42 (AL031018) putative protein [Arabidopsis thaliana]'		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o1.ts	Method	TBLASTX:Soybean
Start	34802	End	35248
GI	none	Score	44
Exons	34802..34882, 34812..34883, 34950..35063, 34958..35038, 35114..35245, 35129..35248, 35137..35247		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o1.tm	Method	TBLASTX:Maize
Start	34803	End	41224
GI	none	Score	79
Exons	34803..34868, 34814..34882, 34814..34882, 34815..34883, 34949..35038, 34953..35063, 34959..35063, 35137..35256, 35138..35248, 37914..37964, 38138..38230, 38150..38230, 38152..38232, 38155..38232, 39590..39670, 39590..39670, 39591..39671, 40049..40144, 40051..40143, 40086..40145, 40912..41022, 40917..41015, 40918..41019, 41136..41216, 41138..41224		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o1.tc	Method	TBLASTX:Cress
Start	34811	End	41233
GI	none	Score	51
Exons	34811..34882, 34814..34864, 34950..35063, 34958..35038, 35129..35260, 35137..35256, 38152..38247, 38153..38230, 39590..39664, 39591..39671, 40045..40152, 40046..40144, 40894..41022, 40899..40985, 40915..41070, 41138..41227, 41142..41216, 41198..41233		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o4.np	Method	AAT/NAP
Start	34814	End	43289
GI	3292814	Score	785
Exons	34814..34880, 34965..35062, 35137..35247, 37913..37964, 38153..38229, 39611..39708, 40036..40149, 40917..41013, 41141..41232, 43077..43289		
GI Descrip.	(AL031018) putative protein [Arabidopsis thaliana]		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8

Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o2.ts	Method	TBLASTX:Soybean
Start	38152	End	41227
GI	none	Score	70
Exons	38152..38232, 38168..38230, 38173..38232, 39590..39664, 39591..39692, 40046..40144, 40070..40153, 40893..40985, 40894..41019, 40894..41022, 40924..41007, 41138..41227, 41139..41216		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o7.gp	Method	AAT/GAP
Start	40966	End	41610
GI	24884_1.R1084	Score	959
Exons	40966..41013, 41141..41610		
GI Descrip.	'3292814/emb|CAA19804.1| 7.0e-17 (AL031018) putative protein [Arabidopsis thaliana]'		

Seq. No.	15320	Seq. ID	OJ990407_12.9A08.C8
Gene No.	32493	Strand	-
Start	33865	End	43289
Name	OJ990407_12.9A08.C8.o7.gs	Method	GENSCAN
Start	40976	End	41467
GI	none	Score	.77
Exons	40976..41467		

Seq. No.	15321	Seq. ID	OJ990407_12.9A08.C9
Gene No.	32494	Strand	-
Start	1187	End	1920
Name	OJ990407_12.9A08.C9.o1.gs	Method	GENSCAN
Start	1187	End	1920
GI	none	Score	.53
Exons	1187..1316, 1838..1920		

Seq. No.	15322	Seq. ID	OJ990407_12.9A08.C11
Gene No.	32495	Strand	+
Start	1	End	418
Name	OJ990407_12.9A08.C11.o1.np	Method	AAT/NAP
Start	1	End	418
GI	6523547	Score	92
Exons	1..156, 229..418		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	15322	Seq. ID	OJ990407_12.9A08.C11
Gene No.	32496	Strand	-
Start	317	End	514
Name	OJ990407_12.9A08.C11.o2.np	Method	AAT/NAP
Start	317	End	514
GI	6523547	Score	81
Exons	317..514		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	15323	Seq. ID	OJ990407_12.9A08.C12

Gene No.	32497	Strand	-
Start	1	End	810
Name	OJ990407_12.9A08.C12.o1.np	Method	AAT/NAP
Start	1	End	810
GI	5103193	Score	674
Exons	1..810		
GI Descrip.	(AP000342) transposase of Tn10 [Plasmid R100] gi|5738084|gb|AAD50242.1|AF162223_1 (AF162223) IS10-left transposase [Shigella flexneri]		

Seq. No.	15324	Seq. ID	OJ990407_12.9A08.C13
Gene No.	32498	Strand	+
Start	1	End	538
Name	OJ990407_12.9A08.C13.o1.np	Method	AAT/NAP
Start	1	End	538
GI	3292814	Score	96
Exons	1..31, 389..538		
GI Descrip.	(AL031018) putative protein [Arabidopsis thaliana]		

Seq. No.	15324	Seq. ID	OJ990407_12.9A08.C13
Gene No.	32498	Strand	+
Start	1	End	538
Name	OJ990407_12.9A08.C13.o1.gs	Method	GENSCAN
Start	389	End	489
GI	none	Score	.59
Exons	389..489		

Seq. No.	15325	Seq. ID	OJ990407_12.9A08.C14
Gene No.	32499	Strand	+
Start	1	End	986
Name	OJ990407_12.9A08.C14.o1.np	Method	AAT/NAP
Start	1	End	920
GI	5281036	Score	1003
Exons	1..920		
GI Descrip.	(AL080318) nucleotide sugar epimerase-like protein [Arabidopsis thaliana]		

Seq. No.	15325	Seq. ID	OJ990407_12.9A08.C14
Gene No.	32499	Strand	+
Start	1	End	986
Name	OJ990407_12.9A08.C14.o1.ts	Method	TBLASTX:Soybean
Start	1	End	911
GI	none	Score	246
Exons	1..222, 2..277, 223..621, 227..649, 636..911, 668..856		

Seq. No.	15325	Seq. ID	OJ990407_12.9A08.C14
Gene No.	32499	Strand	+
Start	1	End	986
Name	OJ990407_12.9A08.C14.o1.tc	Method	TBLASTX:Cress
Start	32	End	893
GI	none	Score	212
Exons	32..229, 133..228, 217..624, 230..649, 636..677, 689..856, 690..893		

Seq. No.	15325	Seq. ID	OJ990407_12.9A08.C14
Gene No.	32499	Strand	+
Start	1	End	986

Name	OJ990407_12.9A08.C14.o1.gs	Method	GENSCAN
Start	146	End	959
GI	none	Score	.89
Exons	146..627, 629..959		

Seq. No.	15325	Seq. ID	OJ990407_12.9A08.C14
Gene No.	32499	Strand	+
Start	1	End	986
Name	OJ990407_12.9A08.C14.o1.tm	Method	TBLASTX:Maize
Start	164	End	986
GI	none	Score	59
Exons	164..223, 166..222, 223..624, 668..859, 939..986	227..649, 636..893, 636..782,	

Seq. No.	15325	Seq. ID	OJ990407_12.9A08.C14
Gene No.	32499	Strand	+
Start	1	End	986
Name	OJ990407_12.9A08.C14.o1.gp	Method	AAT/GAP
Start	214	End	799
GI	41448_1.R1084	Score	776
Exons	214..799		
GI Descrip.	'5281036/emb|CAB45972.1| 1.0e-39 (AL080318) nucleotide sugar epimerase-like protein [Arabidopsis thaliana]'		

Seq. No.	15326	Seq. ID	OJ990407_12.9A08.C18
Gene No.	32500	Strand	-
Start	13	End	183
Name	OJ990407_12.9A08.C18.o1.gp	Method	AAT/GAP
Start	13	End	183
GI	none	Score	209
Exons	13..183		

Seq. No.	15327	Seq. ID	OJ990507_10.9A14.C3
Gene No.	32501	Strand	+
Start	244	End	411
Name	OJ990507_10.9A14.C3.o1.gs	Method	GENSCAN
Start	244	End	411
GI	none	Score	.57
Exons	244..411		

Seq. No.	15327	Seq. ID	OJ990507_10.9A14.C3
Gene No.	32502	Strand	-
Start	1	End	380
Name	OJ990507_10.9A14.C3.o1.np	Method	AAT/NAP
Start	1	End	380
GI	6505722	Score	81
Exons	1..380		
GI Descrip.	(AB032123) ribosomal RNA apurinic site specific lyase [Triticum aestivum] gi|6513849|dbj|BAA87876.1| (AB032124) ribosomal RNA apurinic site specific lyase [Triticum aestivum]		

Seq. No.	15328	Seq. ID	OJ990507_10.9A14.C5
Gene No.	32503	Strand	+
Start	89	End	430
Name	OJ990507_10.9A14.C5.o1.gs	Method	GENSCAN
Start	89	End	430
GI	none	Score	.54

Exons	89..149, 232..430		
Seq. No.	15329	Seq. ID	OJ990507_10.9A14.C6
Gene No.	32504	Strand	+
Start	1	End	1312
Name	OJ990507_10.9A14.C6.o1.np	Method	AAT/NAP
Start	1	End	1312
GI	3777527	Score	848
Exons	1..317, 477..1312		
GI Descrip.	(AF053008) gag-pol polyprotein [Glycine max]		
Seq. No.	15329	Seq. ID	OJ990507_10.9A14.C6
Gene No.	32504	Strand	+
Start	1	End	1312
Name	OJ990507_10.9A14.C6.o2.tm	Method	TBLASTX:Maize
Start	1	End	292
GI	none	Score	144
Exons	1..144, 2..145, 140..292		
Seq. No.	15329	Seq. ID	OJ990507_10.9A14.C6
Gene No.	32504	Strand	+
Start	1	End	1312
Name	OJ990507_10.9A14.C6.o1.gs	Method	GENSCAN
Start	134	End	667
GI	none	Score	.54
Exons	134..391, 464..667		
Seq. No.	15329	Seq. ID	OJ990507_10.9A14.C6
Gene No.	32504	Strand	+
Start	1	End	1312
Name	OJ990507_10.9A14.C6.o1.ts	Method	TBLASTX:Soybean
Start	608	End	1221
GI	5509260	Score	40
Exons	608..658, 608..658, 680..742, 711..1061, 746..1060, 848..1180, 1047..1193, 1049..1216, 1050..1193, 1057..1221		
GI Descrip.	-		
Seq. No.	15329	Seq. ID	OJ990507_10.9A14.C6
Gene No.	32504	Strand	+
Start	1	End	1312
Name	OJ990507_10.9A14.C6.o1.tw	Method	TBLASTX:Wheat
Start	756	End	1207
GI	none	Score	77
Exons	756..827, 756..821, 807..1061, 869..1006, 1036..1056, 1049..1207, 1060..1197		
Seq. No.	15329	Seq. ID	OJ990507_10.9A14.C6
Gene No.	32504	Strand	+
Start	1	End	1312
Name	OJ990507_10.9A14.C6.o1.tm	Method	TBLASTX:Maize
Start	884	End	1312
GI	none	Score	196
Exons	884..1060, 885..1061, 1049..1312, 1057..1260, 1076..1309		
Seq. No.	15330	Seq. ID	OJ990507_10.9A14.C7
Gene No.	32505	Strand	+
Start	1	End	833

Name	OJ990507_10.9A14.C7.o1.np	Method	AAT/NAP
Start	1	End	833
GI	4416302	Score	764
Exons	1..833		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	15330	Seq. ID	OJ990507_10.9A14.C7
Gene No.	32505	Strand	+
Start	1	End	833
Name	OJ990507_10.9A14.C7.o1.gs	Method	GENSCAN
Start	74	End	833
GI	none	Score	.47
Exons	74..434, 463..833		

Seq. No.	15330	Seq. ID	OJ990507_10.9A14.C7
Gene No.	32506	Strand	+
Start	2049	End	4717
Name	OJ990507_10.9A14.C7.o2.np	Method	AAT/NAP
Start	2049	End	4717
GI	6539588	Score	121
Exons	2049..2075, 2559..2798, 4665..4717		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	15330	Seq. ID	OJ990507_10.9A14.C7
Gene No.	32507	Strand	-
Start	2121	End	5677
Name	OJ990507_10.9A14.C7.o1.tw	Method	TBLASTX:Wheat
Start	74	End	409
GI	none	Score	48
Exons	74..127, 152..409		

Seq. No.	15330	Seq. ID	OJ990507_10.9A14.C7
Gene No.	32507	Strand	-
Start	2121	End	5677
Name	OJ990507_10.9A14.C7.o1.tm	Method	TBLASTX:Maize
Start	155	End	812
GI	none	Score	354
Exons	155..469, 163..468, 464..802, 480..812		

Seq. No.	15330	Seq. ID	OJ990507_10.9A14.C7
Gene No.	32507	Strand	-
Start	2121	End	5677
Name	OJ990507_10.9A14.C7.o1.ts	Method	TBLASTX:Soybean
Start	173	End	842
GI	none	Score	233
Exons	173..469, 193..477, 480..560, 582..842, 596..766		

Seq. No.	15330	Seq. ID	OJ990507_10.9A14.C7
Gene No.	32507	Strand	-
Start	2121	End	5677
Name	OJ990507_10.9A14.C7.o2.gs	Method	GENSCAN
Start	2121	End	5677
GI	none	Score	.55
Exons	2121..2273, 2408..2715, 4077..4176, 4579..4826, 4983..5193, 5585..5610, 5668..5677		

Seq. No.	15331	Seq. ID	OJ990507_10.9A14.C8

Gene No.	32508	Strand	+
Start	536	End	601
Name	OJ990507_10.9A14.C8.o1.gs	Method	GENSCAN
Start	536	End	601
GI	none	Score	.5
Exons	536..601		

Seq. No.	15332	Seq. ID	OJ990507_10.9A14.C9
Gene No.	32509	Strand	+
Start	239	End	806
Name	OJ990507_10.9A14.C9.o1.gs	Method	GENSCAN
Start	239	End	806
GI	none	Score	.68
Exons	239..269, 529..625, 667..806		

Seq. No.	15333	Seq. ID	OJ990507_10.9A14.C10
Gene No.	32510	Strand	+
Start	1	End	339
Name	OJ990507_10.9A14.C10.o1.np	Method	AAT/NAP
Start	1	End	339
GI	4680186	Score	71
Exons	1..101, 147..339		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	15334	Seq. ID	OJ990507_10.9A14.C11
Gene No.	32511	Strand	+
Start	270	End	373
Name	OJ990507_10.9A14.C11.o1.gs	Method	GENSCAN
Start	270	End	373
GI	none	Score	.69
Exons	270..373		

Seq. No.	15334	Seq. ID	OJ990507_10.9A14.C11
Gene No.	32512	Strand	-
Start	1	End	448
Name	OJ990507_10.9A14.C11.o1.np	Method	AAT/NAP
Start	1	End	448
GI	6539588	Score	99
Exons	1..118, 187..448		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	15335	Seq. ID	OJ990507_10.9A14.C13
Gene No.	32513	Strand	-
Start	238	End	528
Name	OJ990507_10.9A14.C13.o1.gs	Method	GENSCAN
Start	238	End	528
GI	none	Score	.79
Exons	238..528		

Seq. No.	15336	Seq. ID	OJ990507_10.9A14.C14
Gene No.	32514	Strand	-
Start	422	End	778
Name	OJ990507_10.9A14.C14.o1.gs	Method	GENSCAN
Start	422	End	778
GI	none	Score	.87
Exons	422..778		

Seq. No.	15337	Seq. ID	OJ990507_10.9A14.C15
Gene No.	32515	Strand	-
Start	30	End	144
Name	OJ990507_10.9A14.C15.o1.gs	Method	GENSCAN
Start	30	End	144
GI	none	Score	.96
Exons	30..144		

Seq. No.	15338	Seq. ID	OJ990507_10.9A14.C16
Gene No.	32516	Strand	-
Start	1	End	7841
Name	OJ990507_10.9A14.C16.o1.np	Method	AAT/NAP
Start	1	End	613
GI	3645899	Score	279
Exons	1..613		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	15338	Seq. ID	OJ990507_10.9A14.C16
Gene No.	32516	Strand	-
Start	1	End	7841
Name	OJ990507_10.9A14.C16.o1.gs	Method	GENSCAN
Start	138	End	7817
GI	none	Score	.73
Exons	138..778, 821..1329, 1841..2059, 2839..2955, 4401..4475, 6085..6233, 6673..6807, 6894..7817		

Seq. No.	15338	Seq. ID	OJ990507_10.9A14.C16
Gene No.	32516	Strand	-
Start	1	End	7841
Name	OJ990507_10.9A14.C16.o2.np	Method	AAT/NAP
Start	494	End	2826
GI	6539588	Score	148
Exons	494..512, 1814..2095, 2804..2826		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	15338	Seq. ID	OJ990507_10.9A14.C16
Gene No.	32516	Strand	-
Start	1	End	7841
Name	OJ990507_10.9A14.C16.o3.np	Method	AAT/NAP
Start	6233	End	7841
GI	6505722	Score	297
Exons	6233..6580, 6673..6807, 6879..7061, 7107..7841		
GI Descrip.	(AB032123) ribosomal RNA apurinic site specific lyase [Triticum aestivum] gi|6513849|dbj|BAA87876.1| (AB032124) ribosomal RNA apurinic site specific lyase [Triticum aestivum]		

Seq. No.	15338	Seq. ID	OJ990507_10.9A14.C16
Gene No.	32516	Strand	-
Start	1	End	7841
Name	OJ990507_10.9A14.C16.o1.tw	Method	TBLASTX:Wheat
Start	7584	End	7734
GI	none	Score	70
Exons	7584..7733, 7587..7694, 7657..7734		

Seq. No.	15339	Seq. ID	OJ990507_10.9A14.C17
Gene No.	32517	Strand	+
Start	9	End	299

Name	OJ990507_10.9A14.C17.o1.gs	Method	GENSCAN
Start	9	End	299
GI	none	Score	.79
Exons	9..299		

Seq. No.	15340	Seq. ID	OJ990507_10.9A14.C19
Gene No.	32518	Strand	-
Start	588	End	696
Name	OJ990507_10.9A14.C19.o1.gs	Method	GENSCAN
Start	588	End	696
GI	none	Score	.9
Exons	588..696		

Seq. No.	15341	Seq. ID	OJ990507_10.9A14.C20
Gene No.	32519	Strand	-
Start	341	End	556
Name	OJ990507_10.9A14.C20.o1.gs	Method	GENSCAN
Start	341	End	556
GI	none	Score	.93
Exons	341..556		

Seq. No.	15342	Seq. ID	OJ990507_10.9A14.C23
Gene No.	32520	Strand	+
Start	441	End	639
Name	OJ990507_10.9A14.C23.o1.gs	Method	GENSCAN
Start	441	End	639
GI	none	Score	.7
Exons	441..639		

Seq. No.	15343	Seq. ID	OJ990507_10.9A14.C24
Gene No.	32521	Strand	+
Start	1	End	2794
Name	OJ990507_10.9A14.C24.o3.np	Method	AAT/NAP
Start	1	End	2794
GI	6498436	Score	80
Exons	1..45, 1330..1608, 2719..2794		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	15343	Seq. ID	OJ990507_10.9A14.C24
Gene No.	32521	Strand	+
Start	1	End	2794
Name	OJ990507_10.9A14.C24.o1.np	Method	AAT/NAP
Start	387	End	679
GI	6721512	Score	87
Exons	387..514, 542..679		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	15343	Seq. ID	OJ990507_10.9A14.C24
Gene No.	32521	Strand	+
Start	1	End	2794
Name	OJ990507_10.9A14.C24.o2.np	Method	AAT/NAP
Start	913	End	1309
GI	6705984	Score	71
Exons	913..1309		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	15343	Seq. ID	OJ990507_10.9A14.C24

Gene No.	32522	Strand	-
Start	97	End	467
Name	OJ990507_10.9A14.C24.o1.gs	Method	GENSCAN
Start	97	End	467
GI	none	Score	.7
Exons	97..318, 378..467		

Seq. No.	15343	Seq. ID	OJ990507_10.9A14.C24
Gene No.	32523	Strand	-
Start	2168	End	2409
Name	OJ990507_10.9A14.C24.o4.np	Method	AAT/NAP
Start	2168	End	2409
GI	2586082	Score	154
Exons	2168..2409		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		

Seq. No.	15343	Seq. ID	OJ990507_10.9A14.C24
Gene No.	32524	Strand	-
Start	3452	End	7202
Name	OJ990507_10.9A14.C24.o5.np	Method	AAT/NAP
Start	3452	End	6711
GI	6041822	Score	56
Exons	3452..3479, 5462..5722, 6649..6711		
GI Descrip.	(AC009918) unknown protein [Arabidopsis thaliana]		

Seq. No.	15343	Seq. ID	OJ990507_10.9A14.C24
Gene No.	32524	Strand	-
Start	3452	End	7202
Name	OJ990507_10.9A14.C24.o4.gs	Method	GENSCAN
Start	5142	End	7202
GI	none	Score	.5
Exons	5142..5408, 5757..5838, 6422..6562, 7077..7202		

Seq. No.	15344	Seq. ID	OJ990507_10.9A14.C25
Gene No.	32525	Strand	+
Start	919	End	3422
Name	OJ990507_10.9A14.C25.o1.gs	Method	GENSCAN
Start	919	End	3422
GI	none	Score	.63
Exons	919..1641, 1744..1765, 3133..3422		

Seq. No.	15344	Seq. ID	OJ990507_10.9A14.C25
Gene No.	32526	Strand	+
Start	4085	End	4351
Name	OJ990507_10.9A14.C25.o2.gs	Method	GENSCAN
Start	4085	End	4351
GI	none	Score	.99
Exons	4085..4351		

Seq. No.	15344	Seq. ID	OJ990507_10.9A14.C25
Gene No.	32527	Strand	+
Start	5007	End	11349
Name	OJ990507_10.9A14.C25.o1.np	Method	AAT/NAP
Start	5007	End	11349
GI	1076802	Score	97
Exons	5007..5123, 7658..7921, 7963..8571, 11296..11349		
GI Descrip.	extensin-like protein - maize gi|600118|emb|CAA84230| (Z34465)		

extensin-like protein [Zea mays] gi|1096557|prf||2111476A extensin-like domain [Zea mays]

Seq. No.	15344	Seq. ID	OJ990507_10.9A14.C25
Gene No.	32527	Strand	+
Start	5007	End	11349
Name	OJ990507_10.9A14.C25.o3.gs	Method	GENSCAN
Start	5864	End	8617
GI	none	Score	.72
Exons	5864..5894, 6154..6250, 6292..6431, 7740..8072, 8115..8617		

Seq. No.	15344	Seq. ID	OJ990507_10.9A14.C25
Gene No.	32528	Strand	-
Start	10039	End	12236
Name	OJ990507_10.9A14.C25.o4.gs	Method	GENSCAN
Start	10039	End	12236
GI	none	Score	.42
Exons	10039..10118, 10425..10628, 10794..10834, 11343..11489, 12175..12236		

Seq. No.	15345	Seq. ID	OJ990817_13.9A03.C1
Gene No.	32529	Strand	+
Start	337	End	519
Name	OJ990817_13.9A03.C1.o1.gs	Method	GENSCAN
Start	337	End	519
GI	none	Score	.59
Exons	337..519		

Seq. No.	15346	Seq. ID	OJ990817_13.9A03.C2
Gene No.	32530	Strand	-
Start	163	End	708
Name	OJ990817_13.9A03.C2.o1.tm	Method	TBLASTX:Maize
Start	2	End	576
GI	none	Score	82
Exons	2..166, 13..177, 13..162, 14..163, 166..459, 169..486, 216..473, 499..558, 521..574, 535..576		

Seq. No.	15346	Seq. ID	OJ990817_13.9A03.C2
Gene No.	32530	Strand	-
Start	163	End	708
Name	OJ990817_13.9A03.C2.o1.gs	Method	GENSCAN
Start	163	End	708
GI	none	Score	.96
Exons	163..708		

Seq. No.	15347	Seq. ID	OJ990817_13.9A03.C4
Gene No.	32531	Strand	+
Start	681	End	5246
Name	OJ990817_13.9A03.C4.o1.gs	Method	GENSCAN
Start	681	End	5246
GI	none	Score	.67
Exons	681..722, 2236..2274, 2469..2889, 5071..5246		

Seq. No.	15347	Seq. ID	OJ990817_13.9A03.C4
Gene No.	32531	Strand	+
Start	681	End	5246
Name	OJ990817_13.9A03.C4.o1.gp	Method	AAT/GAP

Start	1882	End	2181
GI	none	Score	592
Exons	1882..2181		

Seq. No.	15347	Seq. ID	OJ990817_13.9A03.C4
Gene No.	32532	Strand	+
Start	7704	End	8721
Name	OJ990817_13.9A03.C4.o1.np	Method	AAT/NAP
Start	7704	End	8721
GI	5777617	Score	89
Exons	7704..7773, 8112..8212, 8589..8721		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	15347	Seq. ID	OJ990817_13.9A03.C4
Gene No.	32533	Strand	-
Start	6415	End	9420
Name	OJ990817_13.9A03.C4.o2.gs	Method	GENSCAN
Start	6415	End	9349
GI	none	Score	.69
Exons	6415..6428, 7595..7773, 7986..8155, 8208..8253, 8816..9223, 9291..9349		

Seq. No.	15347	Seq. ID	OJ990817_13.9A03.C4
Gene No.	32533	Strand	-
Start	6415	End	9420
Name	OJ990817_13.9A03.C4.o2.np	Method	AAT/NAP
Start	7450	End	9420
GI	3236255	Score	124
Exons	7450..7471, 9291..9420		
GI Descrip.	(AC004684) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32534	Strand	+
Start	24	End	690
Name	OJ990817_13.9A03.C5.o1.gs	Method	GENSCAN
Start	24	End	690
GI	none	Score	.89
Exons	24..170, 172..690		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32535	Strand	+
Start	1902	End	2050
Name	OJ990817_13.9A03.C5.o1.gp	Method	AAT/GAP
Start	1902	End	2050
GI	2797006	Score	277
Exons	1902..2050		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32536	Strand	+
Start	2396	End	5950
Name	OJ990817_13.9A03.C5.o2.np	Method	AAT/NAP
Start	2396	End	5950
GI	5852172	Score	92
Exons	2396..2476, 5837..5950		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5

Gene No.	32537	Strand	+
Start	7290	End	9795
Name	OJ990817_13.9A03.C5.o3.np	Method	AAT/NAP
Start	7290	End	9795
GI	3695412	Score	203
Exons	7290..7332, 9095..9251, 9301..9415, 9512..9795		
GI Descrip.	(AF096373) contains similarity to group 1 glycosyl transferases (Pfam: PF00534, E=2.1e-11) [Arabidopsis thaliana]		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32538	Strand	+
Start	10934	End	11037
Name	OJ990817_13.9A03.C5.o4.np	Method	AAT/NAP
Start	10934	End	11037
GI	5922634	Score	76
Exons	10934..11037		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016867|dbj|BAA85210.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32539	Strand	-
Start	2131	End	4168
Name	OJ990817_13.9A03.C5.o1.np	Method	AAT/NAP
Start	2131	End	4168
GI	6685798	Score	940
Exons	2131..2167, 2296..3182, 3615..4168		
GI Descrip.	PROLINE OXIDASE, MITOCHONDRIAL PRECURSOR (OSMOTIC STRESS-INDUCED PROLINE DEHYDROGENASE)		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32540	Strand	-
Start	12627	End	13479
Name	OJ990817_13.9A03.C5.o3.tm	Method	TBLASTX:Maize
Start	2120	End	2481
GI	none	Score	57
Exons	2120..2176, 2140..2169, 2290..2448, 2294..2365, 2295..2369, 2367..2477, 2368..2481		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32540	Strand	-
Start	12627	End	13479
Name	OJ990817_13.9A03.C5.o1.ts	Method	TBLASTX:Soybean
Start	2134	End	3677
GI	none	Score	139
Exons	2134..2169, 2260..2460, 2295..2477, 2535..2582, 2562..2918, 2907..2975, 3025..3177, 3039..3176, 3612..3677		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32540	Strand	-
Start	12627	End	13479
Name	OJ990817_13.9A03.C5.o1.tc	Method	TBLASTX:Cress
Start	2295	End	3974
GI	none	Score	68
Exons	2295..2420, 2295..2477, 2335..2460, 2535..2570, 2577..2831, 2841..2972, 3037..3177, 3039..3182, 3612..3737, 3744..3806, 3873..3974		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32540	Strand	-
Start	12627	End	13479
Name	OJ990817_13.9A03.C5.o1.tm	Method	TBLASTX:Maize
Start	2535	End	2837
GI	none	Score	140
Exons	2535..2837, 2614..2829, 2703..2837		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32540	Strand	-
Start	12627	End	13479
Name	OJ990817_13.9A03.C5.o4.tm	Method	TBLASTX:Maize
Start	3612	End	3875
GI	none	Score	188
Exons	3612..3875		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32540	Strand	-
Start	12627	End	13479
Name	OJ990817_13.9A03.C5.o2.tm	Method	TBLASTX:Maize
Start	9176	End	9750
GI	none	Score	82
Exons	9176..9253, 9199..9243, 9294..9398, 9306..9404, 9472..9744, 9519..9749, 9522..9554, 9523..9750		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32540	Strand	-
Start	12627	End	13479
Name	OJ990817_13.9A03.C5.o2.ts	Method	TBLASTX:Soybean
Start	9519	End	9732
GI	none	Score	194
Exons	9519..9728, 9523..9732		

Seq. No.	15348	Seq. ID	OJ990817_13.9A03.C5
Gene No.	32540	Strand	-
Start	12627	End	13479
Name	OJ990817_13.9A03.C5.o5.np	Method	AAT/NAP
Start	12627	End	13479
GI	6633852	Score	218
Exons	12627..12755, 12816..12981, 13274..13479		
GI Descrip.	(AC008047) F2K11.12 [Arabidopsis thaliana]		

Seq. No.	15349	Seq. ID	OJ990817_13.9A03.C6
Gene No.	32541	Strand	-
Start	92	End	5495
Name	OJ990817_13.9A03.C6.o1.gs	Method	GENSCAN
Start	92	End	5495
GI	none	Score	.41
Exons	92..967, 2151..2347, 2846..3006, 3068..3176, 4683..4803, 5011..5163, 5411..5495		

Seq. No.	15349	Seq. ID	OJ990817_13.9A03.C6
Gene No.	32542	Strand	-
Start	5512	End	7745
Name	OJ990817_13.9A03.C6.o1.np	Method	AAT/NAP
Start	5512	End	7745

GI	119714	Score	85
Exons	5512..5578, 5966..6204, 6371..6573, 7610..7745		
GI Descrip.	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) gi|82169|pir||S06733 hydroxyproline-rich glycoprotein precursor - common tobacco gi|19867|emb|CAA32090| (X13885) extensin (AA 1-620) [Nicotiana tabacum]		

Seq. No.	15349	Seq. ID	OJ990817_13.9A03.C6
Gene No.	32542	Strand	-
Start	5512	End	7745
Name	OJ990817_13.9A03.C6.o2.gs	Method	GENSCAN
Start	5977	End	6906
GI	none	Score	.98
Exons	5977..6384, 6604..6906		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32543	Strand	+
Start	1	End	6111
Name	OJ990817_13.9A03.C7.o1.np	Method	AAT/NAP
Start	1	End	484
GI	6006372	Score	92
Exons	1..67, 392..484		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32543	Strand	+
Start	1	End	6111
Name	OJ990817_13.9A03.C7.o1.gs	Method	GENSCAN
Start	264	End	6111
GI	none	Score	.69
Exons	264..371, 1139..1244, 1544..1756, 3326..3356, 4094..4154, 4408..4485, 5117..5227, 5974..6111		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32543	Strand	+
Start	1	End	6111
Name	OJ990817_13.9A03.C7.o2.np	Method	AAT/NAP
Start	1084	End	5221
GI	3522956	Score	764
Exons	1084..1287, 1544..1756, 3326..3399, 3525..3611, 3865..3989, 4094..4200, 4408..4485, 4579..4684, 4891..5036, 5117..5221		
GI Descrip.	(AC004411) putative pectinesterase [Arabidopsis thaliana]		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32543	Strand	+
Start	1	End	6111
Name	OJ990817_13.9A03.C7.o1.gp	Method	AAT/GAP
Start	3499	End	4160
GI	uC-osflcyp081b10b1	Score	684
Exons	3499..3610, 3864..4160		
GI Descrip.	'4680190/gb|AAD27555.1|AF111710_1 1.0e-19 (AF111710) putative dnaJ-like protein [Oryza sativa subsp. indica]'		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32544	Strand	+
Start	12789	End	15392
Name	OJ990817_13.9A03.C7.o4.gs	Method	GENSCAN

Start	12789	End	15389
GI	none	Score	.98
Exons	12789..13227, 13304..13467, 13573..13647, 13732..14040, 14516..14860, 15273..15389		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32544	Strand	+
Start	12789	End	15392
Name	OJ990817_13.9A03.C7.o3.np	Method	AAT/NAP
Start	12828	End	15392
GI	3386605	Score	931
Exons	12828..13467, 13573..13647, 13732..14040, 14516..14860, 15273..15392		
GI Descrip.	(AC004665) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32545	Strand	-
Start	6476	End	7646
Name	OJ990817_13.9A03.C7.o2.gs	Method	GENSCAN
Start	6476	End	7646
GI	none	Score	.69
Exons	6476..7081, 7260..7646		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32546	Strand	-
Start	8976	End	9389
Name	OJ990817_13.9A03.C7.o3.gs	Method	GENSCAN
Start	8976	End	9389
GI	none	Score	.52
Exons	8976..9389		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o3.tc	Method	TBLASTX:Cress
Start	1533	End	3393
GI	none	Score	194
Exons	1533..1577, 1540..1755, 1608..1754, 3325..3393		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o3.tm	Method	TBLASTX:Maize
Start	1533	End	4494
GI	none	Score	220
Exons	1533..1577, 1540..1755, 1608..1754, 3324..3395, 3325..3387, 3534..3620, 3862..3987, 3873..3992, 4407..4481, 4408..4494		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o4.ts	Method	TBLASTX:Soybean
Start	1539	End	4689
GI	none	Score	219
Exons	1539..1736, 1540..1755, 3324..3395, 3325..3393, 3534..3608, 3868..3990, 3873..3992, 4408..4491, 4603..4689		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o2.tm	Method	TBLASTX:Maize
Start	4571	End	5197
GI	none	Score	69
Exons	4571..4684, 4575..4685, 4575..4685, 4576..4686, 4889..5020, 4889..5020, 4890..5045, 4890..5045, 5115..5186, 5119..5196, 5120..5197		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o4.tc	Method	TBLASTX:Cress
Start	4609	End	5215
GI	none	Score	70
Exons	4609..4689, 4875..5048, 4889..5047, 5114..5155, 5122..5187, 5171..5215		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o3.ts	Method	TBLASTX:Soybean
Start	4890	End	5215
GI	none	Score	171
Exons	4890..5048, 4946..5020, 5114..5215, 5119..5199		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o1.tm	Method	TBLASTX:Maize
Start	13110	End	13470
GI	none	Score	172
Exons	13110..13232, 13110..13148, 13151..13219, 13311..13403, 13312..13404, 13408..13470, 13413..13466		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o2.ts	Method	TBLASTX:Soybean
Start	13110	End	13440
GI	none	Score	149
Exons	13110..13223, 13151..13216, 13309..13440		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o5.ts	Method	TBLASTX:Soybean
Start	13590	End	13947
GI	none	Score	76
Exons	13590..13655, 13591..13647, 13731..13775, 13732..13776, 13852..13947, 13854..13913		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o4.np	Method	AAT/NAP

Start	13646	End	17050
GI	4680190	Score	136
Exons	13646..13703, 16236..16332, 16403..16632, 17008..17050		
GI Descrip.	(AF111710) putative dnaJ-like protein [Oryza sativa subsp. indica]		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o2.tc	Method	TBLASTX:Cress
Start	13731	End	14052
GI	none	Score	50
Exons	13731..13775, 13732..13776, 13852..14052, 13857..14039		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o4.tm	Method	TBLASTX:Maize
Start	13963	End	14868
GI	none	Score	69
Exons	13963..14040, 14513..14590, 14570..14713, 14744..14860, 14770..14862, 14771..14866, 14797..14868		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o1.tc	Method	TBLASTX:Cress
Start	14509	End	14869
GI	none	Score	362
Exons	14509..14538, 14513..14869, 14572..14706		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o1.ts	Method	TBLASTX:Soybean
Start	14534	End	15386
GI	none	Score	365
Exons	14534..14860, 15266..15382, 15273..15386		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o5.gs	Method	GENSCAN
Start	16209	End	16632
GI	none	Score	.64
Exons	16209..16366, 16443..16632		

Seq. No.	15350	Seq. ID	OJ990817_13.9A03.C7
Gene No.	32547	Strand	-
Start	13646	End	17050
Name	OJ990817_13.9A03.C7.o2.gp	Method	AAT/GAP
Start	16227	End	16634
GI	700043	Score	623
Exons	16227..16366, 16443..16634		
GI Descrip.	4680190/gb|AAD27555.1|AF111710_1 1.0e-19 (AF111710) putative dnaJ-like protein [Oryza sativa subsp. indica]		

Seq. No.	15351	Seq. ID	OJ990817_13.9A03.C8
Gene No.	32548	Strand	+
Start	202	End	447
Name	OJ990817_13.9A03.C8.o1.gs	Method	GENSCAN
Start	202	End	447
GI	none	Score	.64
Exons	202..447		

Seq. No.	15352	Seq. ID	OJ990817_13.9A03.C9
Gene No.	32549	Strand	+
Start	123	End	536
Name	OJ990817_13.9A03.C9.o1.gs	Method	GENSCAN
Start	123	End	536
GI	none	Score	.61
Exons	123..536		

Seq. No.	15353	Seq. ID	OJ990817_13.9A03.C10
Gene No.	32550	Strand	+
Start	579	End	3046
Name	OJ990817_13.9A03.C10.o1.gs	Method	GENSCAN
Start	579	End	3046
GI	none	Score	.73
Exons	579..779, 910..998, 2956..3046		

Seq. No.	15353	Seq. ID	OJ990817_13.9A03.C10
Gene No.	32551	Strand	-
Start	2337	End	2859
Name	OJ990817_13.9A03.C10.o1.gp	Method	AAT/GAP
Start	2337	End	2859
GI	LIB3434-038-P1-K1-F1	Score	765
Exons	2337..2859		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32552	Strand	+
Start	4759	End	13998
Name	OJ990817_13.9A03.C11.o2.gs	Method	GENSCAN
Start	4759	End	13998
GI	none	Score	.66
Exons	4759..4892, 5291..5525, 5717..5909, 6218..6400, 7792..8018, 8129..8193, 9723..9942, 10129..10327, 11203..11335, 13221..13383, 13559..13610, 13868..13998		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32553	Strand	+
Start	15072	End	21449
Name	OJ990817_13.9A03.C11.o3.gs	Method	GENSCAN
Start	15072	End	17238
GI	none	Score	.42
Exons	15072..15110, 15493..15572, 16300..16435, 16723..16848, 16952..17046, 17205..17238		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32553	Strand	+
Start	15072	End	21449
Name	OJ990817_13.9A03.C11.o1.np	Method	AAT/NAP

Start	16790	End	21449
GI	6069646	Score	362
Exons	16790..16848, 21067..21449		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32554	Strand	+
Start	23353	End	27267
Name	OJ990817_13.9A03.C11.o2.np	Method	AAT/NAP
Start	23353	End	26129
GI	4538624	Score	542
Exons	23353..23385, 24767..26129		
GI Descrip.	(AJ133502) hypothetical protein [Nicotiana tabacum]		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32554	Strand	+
Start	23353	End	27267
Name	OJ990817_13.9A03.C11.o5.gs	Method	GENSCAN
Start	24673	End	27267
GI	none	Score	.53
Exons	24673..25227, 25430..25991, 26110..26498, 26845..27267		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32554	Strand	+
Start	23353	End	27267
Name	OJ990817_13.9A03.C11.o3.np	Method	AAT/NAP
Start	24700	End	26976
GI	3283026	Score	712
Exons	24700..25068, 25119..25251, 25287..26529, 26612..26727, 26845..26976		
GI Descrip.	(AF051562) putative transposase [Arabidopsis thaliana]		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32555	Strand	+
Start	28049	End	29067
Name	OJ990817_13.9A03.C11.o4.gp	Method	AAT/GAP
Start	28049	End	29067
GI	2310176	Score	819
Exons	28049..28331, 28895..29067		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32556	Strand	-
Start	17731	End	17829
Name	OJ990817_13.9A03.C11.o2.gp	Method	AAT/GAP
Start	17731	End	17829
GI	LIB3477-003-P1-K1-E9	Score	117
Exons	17731..17829		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32557	Strand	-

Start	19180	End	24406
Name	OJ990817_13.9A03.C11.o4.gs	Method	GENSCAN
Start	19180	End	24406
GI	none	Score	.61
Exons	19180..19245, 22661..22747, 23072..23231, 23242..23394, 24153..24406		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32558	Strand	-
Start	27110	End	27509
Name	OJ990817_13.9A03.C11.o3.gp	Method	AAT/GAP
Start	27110	End	27509
GI	3106733	Score	621
Exons	27110..27509		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32559	Strand	-
Start	27831	End	28849
Name	OJ990817_13.9A03.C11.o1.tc	Method	TBLASTX:Cress
Start	25286	End	26943
GI	none	Score	356
Exons	25286..25897, 25888..25965, 26163..26312, 26611..26730, 26845..26943		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32559	Strand	-
Start	27831	End	28849
Name	OJ990817_13.9A03.C11.o2.ts	Method	TBLASTX:Soybean
Start	25523	End	25777
GI	none	Score	187
Exons	25523..25777, 25553..25717		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32559	Strand	-
Start	27831	End	28849
Name	OJ990817_13.9A03.C11.o1.ts	Method	TBLASTX:Soybean
Start	26604	End	26931
GI	none	Score	162
Exons	26604..26729, 26605..26727, 26813..26923, 26839..26931, 26842..26913		

Seq. No.	15354	Seq. ID	OJ990817_13.9A03.C11
Gene No.	32559	Strand	-
Start	27831	End	28849
Name	OJ990817_13.9A03.C11.o6.gs	Method	GENSCAN
Start	27831	End	28849
GI	none	Score	.65
Exons	27831..27932, 28085..28191, 28756..28849		

Seq. No.	15355	Seq. ID	OJ990817_13.9A03.C12
Gene No.	32560	Strand	+
Start	1	End	1239
Name	OJ990817_13.9A03.C12.o1.gp	Method	AAT/GAP
Start	1	End	387
GI	none	Score	379
Exons	1..23, 112..239, 322..387		

Seq. No.	15355	Seq. ID	OJ990817_13.9A03.C12
Gene No.	32560	Strand	+
Start	1	End	1239
Name	OJ990817_13.9A03.C12.o1.gs	Method	GENSCAN
Start	112	End	1239
GI	none	Score	.65
Exons	112..239, 322..562, 689..1239		

Seq. No.	15355	Seq. ID	OJ990817_13.9A03.C12
Gene No.	32561	Strand	-
Start	1312	End	1754
Name	OJ990817_13.9A03.C12.o2.gp	Method	AAT/GAP
Start	1312	End	1754
GI	none	Score	793
Exons	1312..1754		

Seq. No.	15355	Seq. ID	OJ990817_13.9A03.C12
Gene No.	32562	Strand	-
Start	5063	End	5256
Name	OJ990817_13.9A03.C12.o1.tm	Method	TBLASTX:Maize
Start	186	End	1212
GI	none	Score	37
Exons	186..227, 187..228, 314..448, 332..463, 433..567, 451..567, 713..1033, 714..1055, 714..1070, 715..1077, 862..1074, 1040..1192, 1075..1212, 1075..1212		

Seq. No.	15355	Seq. ID	OJ990817_13.9A03.C12
Gene No.	32562	Strand	-
Start	5063	End	5256
Name	OJ990817_13.9A03.C12.o1.tw	Method	TBLASTX:Wheat
Start	752	End	1060
GI	none	Score	432
Exons	752..1060, 760..1059		

Seq. No.	15355	Seq. ID	OJ990817_13.9A03.C12
Gene No.	32562	Strand	-
Start	5063	End	5256
Name	OJ990817_13.9A03.C12.o3.gs	Method	GENSCAN
Start	5063	End	5256
GI	none	Score	.53
Exons	5063..5256		

Seq. No.	15356	Seq. ID	OJ990817_13.9A03.C13
Gene No.	32563	Strand	+
Start	488	End	1414
Name	OJ990817_13.9A03.C13.o1.gs	Method	GENSCAN
Start	488	End	1414
GI	none	Score	.81
Exons	488..565, 772..843, 1361..1414		

Seq. No.	15357	Seq. ID	OJ990817_13.9A03.C14
Gene No.	32564	Strand	+
Start	1	End	2187
Name	OJ990817_13.9A03.C14.o1.np	Method	AAT/NAP
Start	1	End	2187
GI	2252843	Score	810
Exons	1..225, 305..632, 709..1486, 1570..2187		

GI Descrip.	(AF013293) No definition line found [Arabidopsis thaliana] gi|6049885|gb|AAF02800.1|AF195115_20 (AF195115) No definition line found [Arabidopsis thaliana]		
Seq. No.	15357	Seq. ID	OJ990817_13.9A03.C14
Gene No.	32564	Strand	+
Start	1	End	2187
Name	OJ990817_13.9A03.C14.o1.gs	Method	GENSCAN
Start	47	End	2155
GI	none	Score	.77
Exons	47..176, 288..632, 735..849, 1153..1279, 1447..2155		
Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32565	Strand	+
Start	1445	End	1927
Name	OJ990827_16.9A21.C2.o1.gs	Method	GENSCAN
Start	1445	End	1927
GI	none	Score	.71
Exons	1445..1927		
Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32566	Strand	+
Start	4263	End	4688
Name	OJ990827_16.9A21.C2.o2.gs	Method	GENSCAN
Start	4263	End	4688
GI	none	Score	.57
Exons	4263..4320, 4558..4688		
Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32567	Strand	+
Start	8105	End	11670
Name	OJ990827_16.9A21.C2.o4.gs	Method	GENSCAN
Start	8105	End	11670
GI	none	Score	.41
Exons	8105..8136, 8268..8386, 8943..9324, 9393..9616, 9705..10090, 10123..10180, 10237..10949, 11233..11670		
Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32568	Strand	+
Start	27813	End	32208
Name	OJ990827_16.9A21.C2.o8.gs	Method	GENSCAN
Start	27813	End	32208
GI	none	Score	.6
Exons	27813..27920, 29197..29460, 30492..30728, 31425..31442, 32134..32208		
Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32569	Strand	-
Start	5553	End	5922
Name	OJ990827_16.9A21.C2.o3.gs	Method	GENSCAN
Start	5553	End	5922
GI	none	Score	.82
Exons	5553..5780, 5800..5922		
Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32570	Strand	-
Start	12134	End	18781

Name	OJ990827_16.9A21.C2.o5.gs	Method	GENSCAN
Start	12134	End	16325
GI	none	Score	.44
Exons	12134..12682, 13309..13516, 13582..13800, 14119..15017, 15189..15811, 15822..16021, 16051..16325		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32570	Strand	-
Start	12134	End	18781
Name	OJ990827_16.9A21.C2.o1.np	Method	AAT/NAP
Start	12137	End	18141
GI	4378066	Score	2967
Exons	12137..17137, 17820..18141		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi|4680208|gb|AAD27571.1|AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32570	Strand	-
Start	12134	End	18781
Name	OJ990827_16.9A21.C2.o6.gs	Method	GENSCAN
Start	16473	End	18781
GI	none	Score	.52
Exons	16473..17318, 17348..17602, 17664..17800, 17826..18212, 18397..18781		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o6.tw	Method	TBLASTX:Wheat
Start	1807	End	16943
GI	none	Score	61
Exons	1807..1932, 16653..16943		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o5.tm	Method	TBLASTX:Maize
Start	12188	End	12448
GI	none	Score	80
Exons	12188..12448, 12213..12380		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o6.tm	Method	TBLASTX:Maize
Start	12455	End	12697
GI	none	Score	42
Exons	12455..12697, 12456..12515, 12594..12692		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o2.ts	Method	TBLASTX:Soybean
Start	12712	End	13086
GI	none	Score	51
Exons	12712..12936, 12719..12904, 12943..13086, 12944..13057		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o3.tm	Method	TBLASTX:Maize
Start	12727	End	13089
GI	none	Score	180
Exons	12727..13089, 12728..12916, 12935..12997		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o4.tw	Method	TBLASTX:Wheat
Start	12859	End	13248
GI	none	Score	232
Exons	12859..13248		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o4.tm	Method	TBLASTX:Maize
Start	13090	End	13356
GI	none	Score	77
Exons	13090..13356, 13091..13231		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o3.tw	Method	TBLASTX:Wheat
Start	13695	End	14102
GI	none	Score	69
Exons	13695..13841, 13696..13836, 13836..14102, 13876..14019		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o1.ts	Method	TBLASTX:Soybean
Start	14244	End	14627
GI	none	Score	68
Exons	14244..14627, 14434..14574		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o2.tw	Method	TBLASTX:Wheat
Start	14253	End	14672
GI	none	Score	173
Exons	14253..14672, 14359..14619		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o2.tm	Method	TBLASTX:Maize
Start	14346	End	14729
GI	none	Score	167
Exons	14346..14729, 14359..14619		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o1.tm	Method	TBLASTX:Maize
Start	14757	End	15114
GI	none	Score	120
Exons	14757..15071, 14757..15113, 14758..15114		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o1.tw	Method	TBLASTX:Wheat
Start	14787	End	15242
GI	none	Score	292
Exons	14787..15242, 14788..15216		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o5.tw	Method	TBLASTX:Wheat
Start	15447	End	15806
GI	none	Score	83
Exons	15447..15668, 15448..15669, 15675..15806		

Seq. No.	15358	Seq. ID	OJ990827_16.9A21.C2
Gene No.	32571	Strand	-
Start	22855	End	23801
Name	OJ990827_16.9A21.C2.o7.gs	Method	GENSCAN
Start	22855	End	23801
GI	none	Score	.62
Exons	22855..22982, 23527..23641, 23715..23801		

Seq. No.	15359	Seq. ID	OJ990827_16.9A21.C4
Gene No.	32572	Strand	+
Start	1	End	397
Name	OJ990827_16.9A21.C4.o1.np	Method	AAT/NAP
Start	1	End	397
GI	6539558	Score	182
Exons	1..397		
GI Descrip.	(AP000836) Similar to putative polyprotein (AC006248) [Oryza sativa]		

Seq. No.	15359	Seq. ID	OJ990827_16.9A21.C4
Gene No.	32572	Strand	+
Start	1	End	397
Name	OJ990827_16.9A21.C4.o1.tm	Method	TBLASTX:Maize
Start	1	End	319
GI	none	Score	201
Exons	1..171, 2..181, 167..319		

Seq. No.	15359	Seq. ID	OJ990827_16.9A21.C4
Gene No.	32572	Strand	+
Start	1	End	397
Name	OJ990827_16.9A21.C4.o1.gs	Method	GENSCAN
Start	181	End	344
GI	none	Score	.65
Exons	181..344		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32573	Strand	+
Start	1	End	1672
Name	OJ990827_16.9A21.C5.o1.np	Method	AAT/NAP
Start	1	End	1672
GI	6630685	Score	474
Exons	1..639, 1454..1672		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32574	Strand	+
Start	12480	End	13181
Name	OJ990827_16.9A21.C5.o3.gs	Method	GENSCAN
Start	12480	End	13181
GI	none	Score	.76
Exons	12480..12614, 12759..12973, 13055..13181		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32575	Strand	-
Start	720	End	1535
Name	OJ990827_16.9A21.C5.o1.gs	Method	GENSCAN
Start	720	End	1535
GI	none	Score	.77
Exons	720..902, 1135..1339, 1492..1535		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32576	Strand	-
Start	8863	End	9034
Name	OJ990827_16.9A21.C5.o1.gp	Method	AAT/GAP
Start	8863	End	9034
GI	10431_1.R1084	Score	301
Exons	8863..9034		
GI Descrip.	'1256198/dbj|D63711|RICTNR3 4.0e-82 Rice transposon Tnr3 DNA, complete sequence'		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32577	Strand	-
Start	10289	End	10614
Name	OJ990827_16.9A21.C5.o2.gp	Method	AAT/GAP
Start	10289	End	10614
GI	4716319	Score	546
Exons	10289..10614		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32578	Strand	-
Start	14397	End	30929
Name	OJ990827_16.9A21.C5.o1.tm	Method	TBLASTX:Maize
Start	287	End	1654
GI	none	Score	279
Exons	287..634, 301..639, 1445..1546, 1446..1586, 1580..1654, 1582..1644		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32578	Strand	-
Start	14397	End	30929

Name	OJ990827_16.9A21.C5.o4.gs	Method	GENSCAN
Start	14397	End	22578
GI	none	Score	.67
Exons	14397..14570, 14618..14766, 15015..15279, 16150..16344, 16770..16869, 17241..17407, 17854..18091, 19692..19782, 21600..21683, 22515..22578		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32578	Strand	-
Start	14397	End	30929
Name	OJ990827_16.9A21.C5.o2.np	Method	AAT/NAP
Start	16132	End	29754
GI	576886	Score	1033
Exons	16132..16835, 17955..18091, 21383..21481, 21584..21733, 22294..22419, 25729..25892, 25970..26093, 26407..26621, 26720..26903, 27021..27373, 28714..28860, 29706..29754		
GI Descrip.	(L37750) kaurene synthase A [Zea mays]		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32578	Strand	-
Start	14397	End	30929
Name	OJ990827_16.9A21.C5.o1.tc	Method	TBLASTX:Cress
Start	17971	End	27303
GI	none	Score	66
Exons	17971..18093, 21382..21483, 21397..21495, 21583..21726, 21584..21700, 25784..25897, 25993..26094, 26408..26617, 26409..26624, 26507..26635, 26719..26904, 26723..26905, 27019..27195, 27047..27196, 27208..27303, 27212..27301		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32578	Strand	-
Start	14397	End	30929
Name	OJ990827_16.9A21.C5.o2.tm	Method	TBLASTX:Maize
Start	17971	End	21699
GI	none	Score	78
Exons	17971..18093, 17972..18091, 21373..21495, 21377..21514, 21583..21699, 21599..21694		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32578	Strand	-
Start	14397	End	30929
Name	OJ990827_16.9A21.C5.o4.tm	Method	TBLASTX:Maize
Start	21840	End	22183
GI	none	Score	126
Exons	21840..22055, 22097..22183		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32578	Strand	-
Start	14397	End	30929
Name	OJ990827_16.9A21.C5.o1.tw	Method	TBLASTX:Wheat
Start	21909	End	22270
GI	none	Score	70
Exons	21909..22055, 22040..22270, 22118..22270		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32578	Strand	-
Start	14397	End	30929

Name	OJ990827_16.9A21.C5.o5.gs	Method	GENSCAN
Start	23903	End	30929
GI	none	Score	.59
Exons	23903..24226, 24604..24683, 25780..25892, 25970..26093, 26407..26573, 26720..26903, 27021..27321, 28488..28599, 28761..29021, 29072..29322, 30825..30929		

Seq. No.	15360	Seq. ID	OJ990827_16.9A21.C5
Gene No.	32578	Strand	-
Start	14397	End	30929
Name	OJ990827_16.9A21.C5.o3.tm	Method	TBLASTX:Maize
Start	25781	End	26602
GI	none	Score	99
Exons	25781..25897, 25782..25898, 25991..26095, 25993..26094, 26408..26602, 26409..26576		

Seq. No.	15361	Seq. ID	OJ990827_16.9A21.C6
Gene No.	32579	Strand	+
Start	858	End	1638
Name	OJ990827_16.9A21.C6.o1.gs	Method	GENSCAN
Start	858	End	1638
GI	none	Score	.65
Exons	858..964, 1293..1448, 1503..1638		

Seq. No.	15361	Seq. ID	OJ990827_16.9A21.C6
Gene No.	32580	Strand	-
Start	13	End	4395
Name	OJ990827_16.9A21.C6.o1.np	Method	AAT/NAP
Start	13	End	4395
GI	5852181	Score	126
Exons	13..111, 1285..1547, 4372..4395		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	15361	Seq. ID	OJ990827_16.9A21.C6
Gene No.	32580	Strand	-
Start	13	End	4395
Name	OJ990827_16.9A21.C6.o2.gs	Method	GENSCAN
Start	3533	End	3709
GI	none	Score	.96
Exons	3533..3709		

Seq. No.	15362	Seq. ID	OJ990827_16.9A21.C7
Gene No.	32581	Strand	+
Start	1251	End	2849
Name	OJ990827_16.9A21.C7.o1.gs	Method	GENSCAN
Start	1251	End	2849
GI	none	Score	.41
Exons	1251..1322, 1856..1978, 2532..2849		

Seq. No.	15362	Seq. ID	OJ990827_16.9A21.C7
Gene No.	32581	Strand	+
Start	1251	End	2849
Name	OJ990827_16.9A21.C7.o1.gp	Method	AAT/GAP
Start	2226	End	2626
GI	none	Score	767
Exons	2226..2626		

Seq. No.	15362	Seq. ID	OJ990827_16.9A21.C7
Gene No.	32582	Strand	+
Start	2786	End	3157
Name	OJ990827_16.9A21.C7.o2.gp	Method	AAT/GAP
Start	2786	End	3157
GI	3763187	Score	617
Exons	2786..3157		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32583	Strand	+
Start	241	End	397
Name	OJ990827_16.9A21.C8.o1.gs	Method	GENSCAN
Start	241	End	397
GI	none	Score	.48
Exons	241..397		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32584	Strand	+
Start	2840	End	3536
Name	OJ990827_16.9A21.C8.o2.gs	Method	GENSCAN
Start	2840	End	3536
GI	none	Score	.65
Exons	2840..2997, 3416..3536		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32585	Strand	+
Start	5921	End	6670
Name	OJ990827_16.9A21.C8.o3.gs	Method	GENSCAN
Start	5921	End	6670
GI	none	Score	.88
Exons	5921..6122, 6552..6670		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32586	Strand	+
Start	11250	End	13701
Name	OJ990827_16.9A21.C8.o5.gs	Method	GENSCAN
Start	11250	End	13701
GI	none	Score	.49
Exons	11250..11431, 12865..12959, 13403..13701		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32587	Strand	-
Start	1	End	1976
Name	OJ990827_16.9A21.C8.o1.np	Method	AAT/NAP
Start	1	End	1976
GI	3461840	Score	586
Exons	1..34, 400..1976		
GI Descrip.	(AC005315) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32588	Strand	-
Start	3136	End	5142
Name	OJ990827_16.9A21.C8.o2.np	Method	AAT/NAP
Start	3136	End	5142
GI	6721512	Score	116
Exons	3136..3323, 3351..3464, 5095..5142		

GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32589	Strand	-
Start	7628	End	10593
Name	OJ990827_16.9A21.C8.o4.gs	Method	GENSCAN
Start	7628	End	10593
GI	none	Score	.77
Exons	7628..7805, 10025..10187, 10281..10593		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o4.tw	Method	TBLASTX:Wheat
Start	1	End	339
GI	none	Score	61
Exons	1..99, 1..339, 2..214		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o5.tm	Method	TBLASTX:Maize
Start	58	End	526
GI	none	Score	43
Exons	58..126, 83..115, 157..525, 164..526		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o6.tw	Method	TBLASTX:Wheat
Start	427	End	979
GI	none	Score	91
Exons	427..525, 571..603, 604..978, 605..979		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o7.tm	Method	TBLASTX:Maize
Start	559	End	756
GI	none	Score	205
Exons	559..756		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o4.ts	Method	TBLASTX:Soybean
Start	601	End	1128
GI	none	Score	54
Exons	601..786, 775..1002, 1072..1128		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o1.tm	Method	TBLASTX:Maize
Start	760	End	1695
GI	none	Score	73
Exons	760..1494, 893..1006, 1043..1210, 1235..1342, 1478..1672,		

1546..1695

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o7.tw	Method	TBLASTX:Wheat
Start	1069	End	1395
GI	none	Score	114
Exons	1069..1209, 1214..1354, 1219..1395		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o8.tw	Method	TBLASTX:Wheat
Start	1408	End	1647
GI	none	Score	170
Exons	1408..1647, 1427..1621		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o8.tm	Method	TBLASTX:Maize
Start	1780	End	1965
GI	none	Score	83
Exons	1780..1965, 1793..1954		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o6.gs	Method	GENSCAN
Start	14125	End	18147
GI	none	Score	.65
Exons	14125..14129, 14296..14393, 14697..14886, 15028..15138, 15319..15468, 15697..16195, 16229..16545, 16830..17133, 17155..17553, 17737..18147		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o3.np	Method	AAT/NAP
Start	14177	End	19201
GI	6623973	Score	2530
Exons	14177..17991, 19175..19201		
GI Descrip.	(AC007505) Highly similar to Ta1-3 polyprotein [Arabidopsis thaliana]		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o2.tc	Method	TBLASTX:Cress
Start	14186	End	14788
GI	none	Score	65
Exons	14186..14398, 14414..14551, 14561..14665, 14660..14788		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201

Name	OJ990827_16.9A21.C8.o2.tm	Method	TBLASTX:Maize
Start	14186	End	14609
GI	none	Score	311
Exons	14186..14608, 14190..14609		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o3.ts	Method	TBLASTX:Soybean
Start	14189	End	14587
GI	none	Score	52
Exons	14189..14302, 14199..14294, 14312..14587, 14315..14584		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o5.tw	Method	TBLASTX:Wheat
Start	14213	End	14666
GI	none	Score	62
Exons	14213..14413, 14214..14402, 14429..14635, 14432..14635, 14445..14666		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o3.tm	Method	TBLASTX:Maize
Start	14672	End	15110
GI	none	Score	200
Exons	14672..14977, 14674..14988, 14682..14975, 14690..14989, 14954..15109, 15021..15110		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o1.tw	Method	TBLASTX:Wheat
Start	14762	End	15541
GI	none	Score	67
Exons	14762..15217, 15006..15218, 15212..15541, 15228..15539		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o4.tm	Method	TBLASTX:Maize
Start	15116	End	15545
GI	none	Score	100
Exons	15116..15544, 15249..15545		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o1.ts	Method	TBLASTX:Soybean
Start	15130	End	15520
GI	none	Score	119
Exons	15130..15396, 15143..15520, 15172..15396, 15228..15518		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-

Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o3.tc	Method	TBLASTX:Cress
Start	15338	End	15544
GI	none	Score	65
Exons	15338..15544, 15372..15539		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o3.tw	Method	TBLASTX:Wheat
Start	15542	End	15812
GI	none	Score	205
Exons	15542..15811, 15543..15812		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o1.tc	Method	TBLASTX:Cress
Start	15902	End	16444
GI	none	Score	171
Exons	15902..16150, 16166..16444		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o2.ts	Method	TBLASTX:Soybean
Start	16025	End	16477
GI	none	Score	125
Exons	16025..16162, 16148..16477, 16149..16469		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o2.tw	Method	TBLASTX:Wheat
Start	16046	End	16711
GI	none	Score	34
Exons	16046..16150, 16167..16226, 16168..16227, 16259..16489, 16259..16588, 16335..16589, 16556..16711, 16600..16710		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o6.tm	Method	TBLASTX:Maize
Start	16088	End	16492
GI	none	Score	104
Exons	16088..16153, 16169..16492, 16347..16490		

Seq. No.	15363	Seq. ID	OJ990827_16.9A21.C8
Gene No.	32590	Strand	-
Start	14125	End	19201
Name	OJ990827_16.9A21.C8.o9.tw	Method	TBLASTX:Wheat
Start	17497	End	17800
GI	none	Score	37
Exons	17497..17568, 17557..17658, 17568..17624, 17653..17799, 17654..17800		

Seq. No.	15364	Seq. ID	OJ990827_16.9A21.C9